

# non loqui 72



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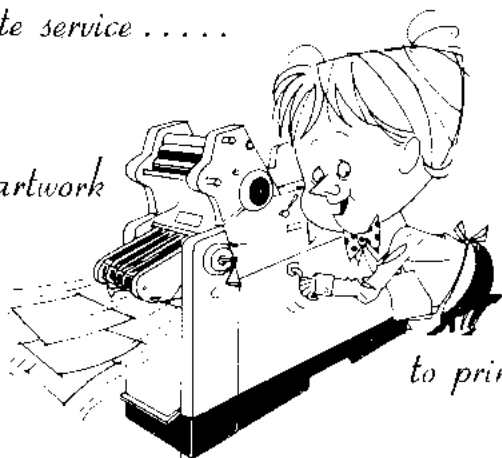
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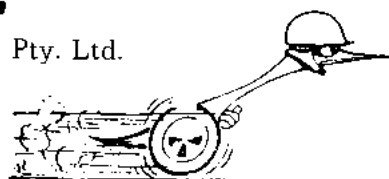
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NON LOQUI

Official Magazine of the Western Australian

UNIVERSITY ENGINEERS CLUB

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EDITOR	.....	CLIFF GREEN
CO-EDITOR	.....	DON CORNISH
YEAR NOTES	.....	DAVE SHERIDAN

**Bronzing  
burning, cooking,  
firing, generating,  
heating, hoisting,  
incinerating,  
lifting, lighting,  
mixing,  
refrigerating,  
scalding, soldering,  
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versatile**



## **a song for engineers**

Long years ago to Bittern Park  
Came Julius, alias Caesar,  
At Cobden Bridge he beached his bark  
And climbed a lofty tree, sir,  
"Dear, dear," quoth he, "no road I see,  
Fall in the Engineers, Sir,  
Review survey, mark out and lay  
A road from hence to here, sir,"

### *Chorus:*

For it is now as it was then  
The Engineers they knew things,  
They are the Big, Strong, Silent men  
Who do not talk, but do things.

In days of yore, the Western shore  
Was rude to King Canute, sir,  
It rolled its waters to his feet  
And wetted his best boot, sir,  
"This is," said he, "too much for me"  
Fall in the Engineers, sir,  
Surround this shore, both aft and fore  
With docks and quays and piers, sir.

The Captains and the Kings depart,  
As Ridyard once did not, sir,  
By barge and 'bus, by road and rail,  
By motor and by boat, sir,  
By whatsoever mode they cross,  
Sea, Land or Atmosphere, sir,  
They cannot move a yard without  
The lusty Engineer, sir.

Some time ago the Undergrads.,  
A pond to build decided;  
They said "We'll toil and dig and mix,  
With tea and cakes provided.  
The Engineers, as is their way,  
Spoke little if at all, sir;  
But started right away to build  
The pond beside the hall, sir.

# Non Loqui

Well, it gives you an opportunity to have your photo taken which you might not otherwise have had. In fact we gave the opportunity to you a number of times conveniently arranged so that you were either across at the ref. or up at college.

Also, to save crowding, it was organized that blackboard notices, noticeboard notices and lecture announcements would be made when everybody was either at the beach, down at Steves or anyhow, not at University.

All announcements were delayed to the last possible moment and photographs were taken on time or early so that only the selected few managed to grace our year photos.

Thus Non Loqui serves admirably as a means of picking the observant, intelligent, mind-reading, future graduate from the rest, thus enabling staff members to dispense with the obsolete (though reliable and practical) method of casting exam papers down graded stairs. It also enables the student to see which staff members have the capacity to understand the minds of their students.

In order to test the staff members further (in retaliation for what was to come), a number of letters was circulated at different (but not necessarily subsequent) times, signed by different people and giving different photographing times.

Later letters gave conflicting reasons in their apologies for the time changes thus trying to undermine the solid faith that all staff members have in the organizational efficiency of their students.

This well structured and highly thought-out plan was indeed successful, only a few staff members managing to arrive for the final photographs. This, shows the need for the much better understanding of the students by the staff. Again Non Loqui has served a vital purpose.

For a touch of humour we decided to print the photos you least expected; with the accompanying blackmail lists for a touch of practicality.

A ha! but Non Loqui means more. Apart from each issue recording the means over the last 26 years from which you can destroy your future business partner and ruin your competitors, it also records over your 4 years the relevant avenues of attack they might use in their futile attempt towards destroying you. Non Loqui forms a vital wall of safety about you.

Yet more still! What is the most basic thing a future employer looks for in you. What identifies you as a graduate, as a person from the Engineering faculty of the University of Western Australia? — Four good strong Non Loqui editions. What more could he ask?

Non Loqui further indicates that Engineers know how to spend their money by providing a vital outlet for a large proportion by their funds, abetted only by the generosity, of companies placing advertisements and gifts towards this vital magazine.

Their interest in future engineers is recorded and reassured by the records of Non Loqui.

Non Loqui — not words about the engineer, but the vital life of the Engineer.

CLIFF GREEN  
EDITOR AND SUCKER, 1972.

## WANTED: Editor/Sucker for Non Loqui '73

Conditions:	Mutinous. Meals and sleep unknown.
Salary:	1 free copy Non Loqui.
Appointment:	NOT 3 weeks before exams.
Qualifications:	Be able to spell <del>ergen</del> ingen injuneer.
Responsibility:	To prevent this being the last copy of Non Loqui.



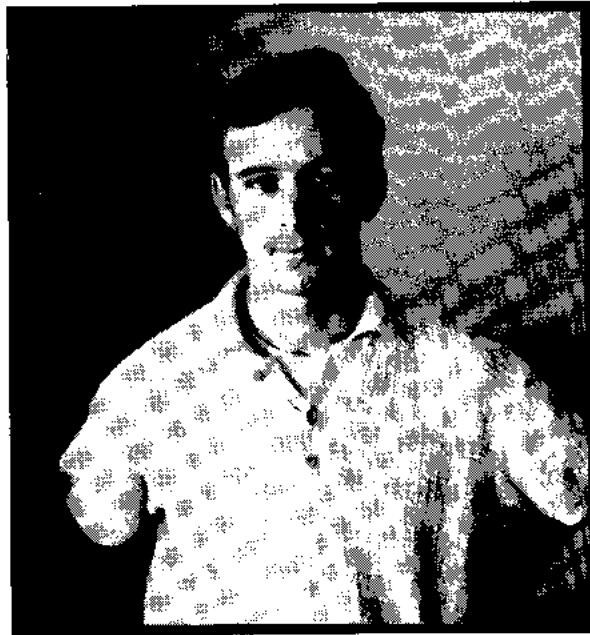
# A.E.C. committee



*Ken Law-Davis, Phil Surridge, Rod Hammond, Stan Foster, George Cordin, Tom Kendall, Peter Barnett, Jock Howe, Warren Morris.*



# president's report



It happened in 1972. The University Engineers' Club significant change in character.

No longer does the club try to cater for a large percentage of the 700 students. This is merely recognition of a situation that has existed for the past few years. On the social level it has been realised that events involving the majority of the club are unmanageable. As a legacy of previous years we have a social committee to run functions for the club as a whole. This year the functions reflected the likes of the more active members of this committee. In the future a Social Organiser and one deputy are all that are needed to approve, advise and watch the budget of proposals put forward by sections of the club. After heated debate and a cool reception by staff, the U.E.C. committee decided on a policy of no free list to social functions, but free or reduced price tickets can be offered by the committee in recognition of work done for the club.

For the benefit of the club as a whole we have campaigned, with doubtful success, for a coffee machine, common room improvements and a motor cycle shelter. Some ground has been gained with student participation in the faculty and promoting Engineering student's image on campus as a whole. The Goyder Cup is again in our possession and features in our new trophy cabinet.

I would like to take this opportunity to express my thanks to the students and staff both in the foreground and behind the scenes who have aided the smooth running of the club or added touches of excitement to the year.

Looking forward to 1973 the A.N.E.S.A. Symposium will undoubtedly be the dominant event and organizers are showing great enthusiasm.

*PETER BARNETT  
U.E.C. PRESIDENT 1972*

# president's welcome '73

To both incoming and current members, I welcome you into the U.E.C. for 1973.

The club will succeed this year in all spheres encountered solely by the attitude of you, the member.

From the faculty fee, \$6 has gone into the club bank account. This can be withdrawn, with a very high rate of interest, only by partaking.

Predominant events to anticipate, will include the Ball in April and the Dinner in September.

However, interspersed with these and by no means less important the Social Committee will be implementing a wide variety of ideas. Also the tug of war trophy must be won!

For the sportsmen, the fate of the interfaculty competition, Goyder Cup is still uncertain but do not despair.

This year the Club will be host to the Annual ANESA Symposium to be held in the May vacation. This will undoubtedly be an incomparable milestone in any undergraduate lifetime.

The committee men are but few. Need I stress co-operation and support are essential for the smooth operation of the club.

I wish you all a successful year but remind you the finals begin in 35 weeks.

BENJAMIN KOOPERMAN  
PRESIDENT

salutos mes amigos

prosit

na zdrowie

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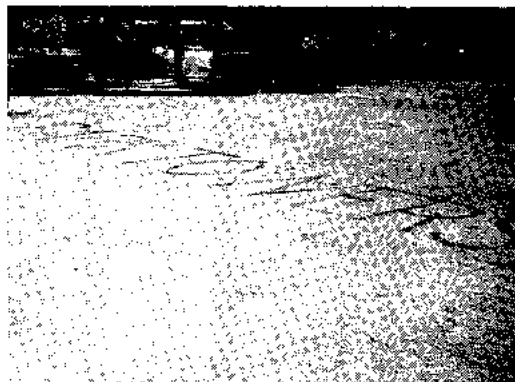
# socially speaking

The passing of 1972 saw the engineering faculty consolidate its position on campus as the most socially active faculty. We now hold an unrivalled position as far as Balls are concerned with two highly successful functions (both held at Park Towers) to our credit. There can no longer be any argument as to our ability to out class and out run any who would challenge our position of supremacy. The law, architectural and medical faculties have surely, at last, lost their image of greatness and grandeur to us in the Ball sphere.

This year saw the advent of more lawn fertilizer and greater things - a new fountain, more broken Hermies and smaller participation by faculty members in the available social functions. The Asian segment of the faculty must be congratulated for running one of the few shows that showed much more support than ever before and for running an extremely successful Asian food night.

From the senior year's point of view the dinner must be regarded as having been highly successful in its new format and the staff too must be thanked for their participation which was so lacking at our other social events.

Though many struggle to avert it, the faculty is changing slowly, with fewer each year helping to maintain the pressure groups which enable us to



be so well known on the campus. Many of those most active are passing out of the ranks but it is hoped that in future years there will always remain a small group prepared to keep the Engineers name on campus most dominant in the social scene.

Finally it remains for me to thank all those who helped me through the year. Without the help of my social committee none of the events could have met with a fraction of the success they did.

WARREN J. MORRIS  
Social Organizer 1972.  
(Alias Hofmeyer Fuhrer)

---

## ONCE UPON

Once upon an unfortunate time, there was a hairy thing called man. Along with him was a hairier thing called animal. Man had a larger brain which made him think he was superior to animals.

Some men thought they were superior to men. They became leader men. Leader men said "We have no need to work, we will kill animals to eat." So they did.

Man increased, animals decreased. Eventually leader men said "There are not enough animals left to eat. We must grow our own food." So man grew food.

Now the only animals man had not destroyed were tiny ones, like rabbits and mice, and these little animals were caught eating some of man's crops. "These animals are a menace. They must die."

In China they killed all the sparrows. In Australia they killed all the rabbits. Everywhere man killed all wildlife. Soon there was none, and all the birds were poisoned. Leader man said "At last we are free of pests."

Man's numbers increased. The world became crowded with men. They all had to sleep standing up. One day a leader man saw a new creature eating his crops. This creature's name was starving people.

"This creature is a menace!" said leader man . . . . .

SPIKE MILLIGAN

# exhibition 72

In many ways subsequent Exhibitions have a great deal in common. Principal among these are the problems organizers have in finding willing demonstrators for exhibits. Even more frustrating are the numbers of students offering assistance one or two days before hand.

Despite such problems however, the Exhibition functioned smoothly and a large amount of new technology was exhibited to the public. The success of the Exhibition is a tribute to the hard work of many students and especially the assistance provided by the staff of all departments. One must qualify the statement that the Exhibition was a success: consequently it was not the success hoped for (because of torrential rain on the Saturday evening) but, if we can measure success in terms of experience gained in communicating with the public, the success was well assured.

Moving on to some of the more prominent exhibits, the most popular of course, and somewhat of a brainteaser, was the display of Karrinyup engineer Ralph Sarich's mystery cloaked orbital engine. The method of operation has since been outlined, but at the time one could merely marvel at the Press reports and try to fathom its workings.

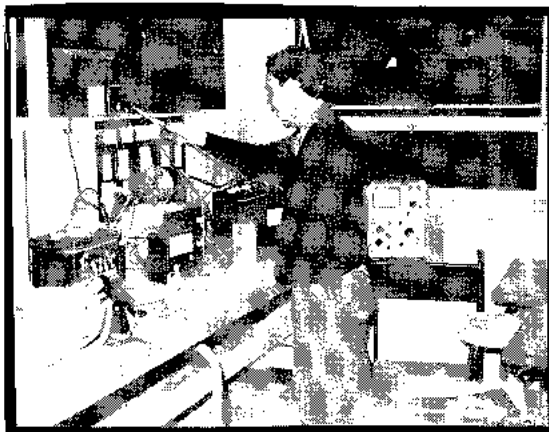
Computers play a large role in engineering exhibits. The teletypes were utilized for computer games, an analogue computer being used for flight simulation. Most enterprising of all was the automobile simulation rig designed by Paolo Cantoni; using the Electrical Department's analogue computer. Even more enterprising perhaps was the way Conrad Crisafulli's car was manhandled through corridors and around corners. This vehicle (thanks Con) added realism to an excellent exhibit.

This would be a good point to thank Conrad for the great work done as overall organizer of the Engineering exhibits. The use of the vehicle aptly illustrates the selfless manner in which Con gave his time and effort to the Exhibition. One should not forget the work of Cliff Green, Paul Taplin and (in all modesty) Frederick Noteboom, the last of whom Dr. Leary claimed would "Exhibition" himself out of a degree.

Back to the Exhibition and exhibits and the hovercraft which did an admirable job of keeping the public off James Oval until it too was put out of action.

The Exhibition wound up in the pouring rain with a rousing show in the Old Ref. Memories linger of Pete Canavan, none too sober, dancing the Charleston on a slippery floor.

FRED NOTEBOOM



*Thanks to all helpers, both staff and students.  
It was a great effort. — Ed.*

# frolic in the hills

The day was set. A beautiful sunny day, not a cloud in the sky. The kegs were acquired, route established and the destination waiting for a horde of fun-hungry engineers, and theirs, to make the most of the event of the year.

The 1972 ENGINES CAR RALLY.

After the amazing success of the first term pissnic, the club was looking forward to the car rally. After some initial misunderstanding the route was decided, 76 miles in just under two hours. The first two sections were easy and you only had to follow directions and answer simple questions. But the horror-stretch in the middle required the hopeful drivers to travel 36 miles in 43 minutes.

Apart from this section the rally was a cinch for the level-headed, calm, controlled, Andrew Cowan type who pitted his skills against the dastardly minds of the organizers. And it was a depressing sight to the said entrepreneur to see that all of their supposed victims slide, limp and rattle in, the worst for wear, but present to verify the undying spirit of the engineers, and theirs.

Once again the Civil IV rip-off was evident, with the chosen ones taking off 1st and 2nd and another pushing for the booby prize.

First place was achieved by Peter "Coon" Marchesani, to whom no credit, apart from the ownership of a driver's licence, can be attributed. Apologies go to the good-looking guy in the VW and his better-looking bird, who pulled off second, for not being able to name them, but they showed untold skill in attaining the sympathetic position. The booby winner was a prize himself. Mr. Wallace successfully missed the last check point, then managed to do 30 extra miles by the most original short cut ever devised.

Praise must go to others who helped make the joyous occasion. Thanks to the idiots in the Austin convertible who, when they weren't sitting on the keg, kept the troops entertained by dare-devil feats of driving over rocks and up trees. They also did well in the rally and picked up a yellow sticker for their troubles.

Congratulations must also go to the game Datsun, who upon entering the Mundijong check-point, did a neat four-wheel slide in some loose gravel and decorated the curb with black rubber, bent a rim, damaged a tyre and generally stuffed his front end.

Some of the revellers readied themselves to the session at Jarrahdale. What a show! With Denis Blair having orgasms over the lager-phone and Dave Pierce displaying his forceful voice, to the tune of the combo, led by the woman with N.S. haircut playing the organ. Entertainment!



To finish the day a handful of somewhat wear-some travellers tried to kick on, but all flaked. The journey home was not without incident, however, with one accident, one more yellow sticker, and a dangerous driving charge, bringing the score for the day to:

- 2 kegs
- 2 prangs
- 1 traffic charge
- 2 yellow stickers
- 1 hymen
- 14 hangovers

Man, what a show!

PHANTOM PICNICKER

## the brown eye show or....



In absolutely ideal autumn weather eleven representatives from the University Engineers Club attended the National Engineering Students Symposium hosted by the University of Queensland.

The welcome smoko, on Sunday night, was an extremely entertaining event with the official presentation and welcome to the Queen of SCIAES who ended a poor second to that Queensland delight, the disrobed Ilana.

Next morning, at the Crest Hotel convention centre, the Vice Chancellor, Col. A.S. Gehrman of the Uni. of Qld. officially opened the Symposium.

The first paper was presented by Alderman Clem Jones — the Lord Mayor, entitled "Town Planning!" It was unfortunate that with an election being contested shortly, this paper was only another campaign speech and should have been called "What Clem Jones has done for Town Planning in Brisbane."

The second paper was from Mr. D.T. Buchanan of MIM and called "Man Management!"

The cabaret in the evening gave all the interstate delegates their 1st big chance at the local talent . . . The quality and quantity was absolutely astounding. Many encounters were to begin this night.

Tuesday morning's paper, "The Post Graduate in Industry" by Dr. Max Lay from B.H.P. gave much food for thought to the aspiring engineers in the audience, discussing success with a basic B.E. or the need for post graduate qualification.

In the afternoon industrial tours were undertaken providing a look at a wide cross section of major engineering works in Brisbane, including Carlton Brewery!

The evening session was a Rancous River Romp Round the Reeds. Two tubs overlaid with booze and birds was a well appreciated show! Many all night parties followed back at the rooms, with people getting a little more acquainted.

Wednesday morning Dr. Allwood, the director of the Genesys Centre, at the University of Technology, Loughborough, Leicestershire, England presented his paper called "The use of Computers in Engineering." This was an introduction to the development of a unified computer language and of a program to translate existing programs to it.

The 5th paper "Application of Atomic Energy in Engineering" from Sir Phillip Baxter seemed to be more about Atomic Energy in Australia rather than engineering uses.



# ...where did that banana go?!

The ANESA dinner and general meeting proved exceptionally rewarding to the Sandgroppers. During an extremely disorganised and poorly run meeting Ben Kooperman and Rod Hammond were elected to President and Vice President for the following year respectively, giving the U.E.C. the 1973 ANESA Symposium.

Not a bad effort considering the lack of communication between student bodies of east and west during the year.

Thursday was spent at the Gold Coast visiting Coolangatta and Surfer's Paradise, of which, the latter is an extraordinary place. It's a shame the beach is being eroded.

That evening at the Brisbane Town Hall it was once again proven that Engineers everywhere always have the biggest balls!

With only the Farewell Dinner to go on Friday night many farewells were made back at the quarters. It was quite a sight seeing a line of taxis collecting females, so that the men could go and have some breakfast.

Not many managed the morning paper by Mr. Mainwright from the department of Supply.

However, the afternoon paper by Dr. T. Bachmann, proved a highlight of the symposium with a light hearted fable on one Mr. Lascr and his invention which was to bear his name.

The Farewell Feed was an undoubted success (except for the establishment's management) at which a group from the Brown Eye Mob took a final exploratory tour of the heart of the city.

Food for Thought arose during the discussion sessions following each paper when a single theme continuously developed and was discussed to great length and depth with the respective speakers. This was the Moral Responsibility of the Engineer to himself and the Community and its relation to the subject matter of each paper. Are the new generation of engineers developing a conscience?

The delegates from the University Engineers club who attended the 1972 ANESA Symposium in Brisbane are grateful for the generosity of:

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BENJAMIN KOOPERMAN



# **1973**

## **aresa**

### **symposium**

After a lot of hard talking and a lot of work we have arranged for the 1973 symposium to be held in Perth. The dates will be from Sunday 20th May to Saturday 26th May, which will be the second week of the May vacation.

In the past years the lectures and activities have been based on "trade" topics. At the Brisbane symposium however, the question period always revolved around the moral aspects of different projects. With this in mind our symposium is centred on one topic "The Moral Responsibility of the Engineer."

At the moment of writing we have not finalized our speakers, however the speakers we have approached are very eminent in their fields. The highlight of the week will be an open forum featuring several very distinguished guest speakers and a very heated discussion is guaranteed afterwards. For those who attend, this week will be, we hope, a very meaningful experience and perhaps be a basis for thought on their future projects.

Added to the extremely interesting lectures will be a heavy social scene with a buck show, a dinner, three cabarets and a trip to Rottnest Island for the day.

Like the organization of speakers our social programme is far from complete but it looks like proving equally interesting.

During the second week of term an information sheet will be distributed and applications will be open for those who want to attend.

*ROD HAMMOND*

# **perth w.a.**

# bend sinister

## BEND SINSTER 1972

"Alright, Jock, I'll do it . . . but only if I pass."

"What do you mean it's been voted through already?"

With this somewhat inauspicious start to Bend Sinster 1972, the mind began to boggle into things like;

"Emancipation For Students By The Pointed pen!" and

"Rupert Murdoch Ready To Make An Offer!"

These initial impressions of literary grandeur were next to be eroded away by the less attractive headlines of . . .

"Bend Sinster Editor Sued."

"Student Editor Libel Case Settled."

With these sobering judgements weighing heavily on our minds, we proceeded into the publication of our magazine. Now, as you doubtlessly know, the stripes on the Bend Sinster heraldic shield denote some form of ancestral bastardry. Little were we to know that this trait was to be present in nearly every issue! What with lack of material, lack of incentive (other than a few sundry jugs of grog) and lack of time, (notwithstanding a certain lack of ability) the output for this year was perhaps just slightly less than prodigious.

The six issues produced under all these handicaps brought to life the literary talents of at least 3% (wow!) of our faculty . . . a far cry from previous years in which one person wrote the lot. For the statistically minded:

50,000 sheets of paper, 8,000 staples, 18 miles of walking (while collating), \$50 of incentive beers and one editor were used up to produce our little literary gem for this year.

Notable contributors for the magazine were Ken Law-Davis and Greg Milne. Ken, though suffering from a social drawback known as "going off", managed to write articles for every issue bar one, whilst Greg repeated last year's performance by dragging "Rottsie" out of the barrel long

enough to provide glorious critiques of the major sporting events of the club.

In an attempt to personalise Bend Sinster (in a megalomaniac type of way) a few subtle changes were instigated to the format this year. Originally designed to cunningly avoid the fish shop, we once more raised a few ires when printing was started on both sides of the paper, removing another use of the magazine for posterity, if not for some return of prosperity.

Regular appearances of "Things", generally items for sale, including a yacht, cars and camera gear; and "Gripes", which managed to range from whinges on walkathons to actions against apathy, were also started this year.

The previous year's heavy accent on poetry was continued with some good contributions, particularly one describing the drafting staff, of whom was written:

"When our drawing is completed,  
we find to our surprise,  
the colour of our masterpiece  
has changed before our eyes."

No engineer having been at Uni at any time in the last six years (plus) will fail to recognise this as an excellent description of that part of the course from which we all suffered.

The Civil IV dominance of the U.E.C. was spoofed tremendously in another article which dealt with fresh proposals for "true or false" exams. This article suggested:

Next to "False" would be written, "This is a good article for Bend Sinster". Next to "True" ~~on the other articles are written by ignorant Civil IV students!" . . . Superb!~~

This year in itself has no singularly significant occurrences, (Thank God) yet will always stay as one of the most memorable . . . and Bend Sinster is another part of that memory. All that remains now is to wish all students, their magazine and their club the best of luck for the future.

STAN FOSTER

---

Before you argue with a fool make sure he is not similarly occupied.

*Would be written  
It doesn't really matter  
because all the other  
articles are written  
by "ignorant Civil IV  
Students!" - Superb!*

## go is the word

Like Magellan the explorer, we discovered Australia! "Are you just coming here to die?" asked an Australian.

"Oh, no, I don't come here to die. I come here to study," was the reply.

Inevitably communication is a problem for these young explorers. However, most can eliminate such obstacles gradually whereas others choose to avoid embarrassment by less conversation. For heaven sake, please don't be discouraged just over some unintentional incidents. These are just mere misunderstandings. Everyone needs to be frank and sing out their disagreement. Remember, we are all different individuals and have diverse culture backgrounds. But you would be astonished with the fun, jokes and conversation you get once you come to know each other. And only through discussion can we explore the qualities of each individual. Naturally, the success of these new friendships depends on the goodwill of both sides.

U.E.C. welcomes our new and old members also, to participate in all its activities. Make it a real engineers' club. Indeed, hard study is the main mission of all overseas and Australian students alike. But coming to our annual Engineers' Ball would be a real thrill, — would be most delighted to see you there with a beautiful blonde too!

Should you own a 1950 car which climbs trees and crosses the Swan river everyone would be anxious to see it at the car rally. Certainly we hope for more spectators too.

If you feel bored and like to have some games we have a common room in the Engineering building and it is not surprising that many new members don't know there exists such a relaxing place till the end of the first year course! I am pretty sure there are many more new good sportsmen, excellent badminton players, basketballers and athletes. Engineers were the champions in the Goyder Cup competition!

Tubbing is held at the Swan River and a dip-in is sure to be tingling good. In tug-o'-war we need more "500 h.p. bulldozers" to flatten out the lawyers.

Apart from these activities mentioned we have an Asian Food Night annually and this year we need more excellent cooks. Every year it is improving with more Asian students participating. We hope to make this year even more exciting with more good food nights.

Please take the initiative to enquire about other activities. To all newcomers we wish you a good start in your new life and for the old timers — happy hunting.

GOH CHIN HUA

## the thoughts of chairman harro

Look at them: ten minutes late and no apology. I've had enough. I'll lock the door — that should fix them — they won't think to walk around to the other one.

What do you mean my writing's too small? You should see some of the mess I have to wade through late at nights. And you have the nerve ....

Time I hit them with a question. What! no one knows the answer. Basic first year work too! Oh well, a man can do so much. "If you don't understand come and see me later!" (I know he won't.) They'd understand a lot better if they'd stop that confounded muttering. How can anyone be expected to lecture with that going on? Surely they're not disinterested in this enlightening subject on the coefficient of refraction over ocean waves and groynes.

Paper aeroplanes now — thought that stopped in first year. And they still can't make a decent plane. Didn't travel two rows. I can remember the time I made this plane so big . . . .

Oh no! don't tell me they've started their file clicking already, the lecture can't be over yet, I've covered half the work. Alright, I know it's after quarter to, but I just want you to get this down — And STOP that clicking!!

At last that's over. Thank God tomorrow's Saturday and I can go fishing.

*Any resemblance to one or more lecturers is purely coincidental.*

---

### BEFORE WE GO

*Schoolyard*

*Oval*

*home and friends*

*— All passing on to other ends*

*just as I and all my friends*

*played in the backstreets of our lives.*

*courtships*

*longing*

*pain and pride*

*— All wounded to quicks, deep inside.*

*No joys no matter how we tried,*

*to regain the backstreets of our lives.*

*Memories*

*Misty*

*friends since past*

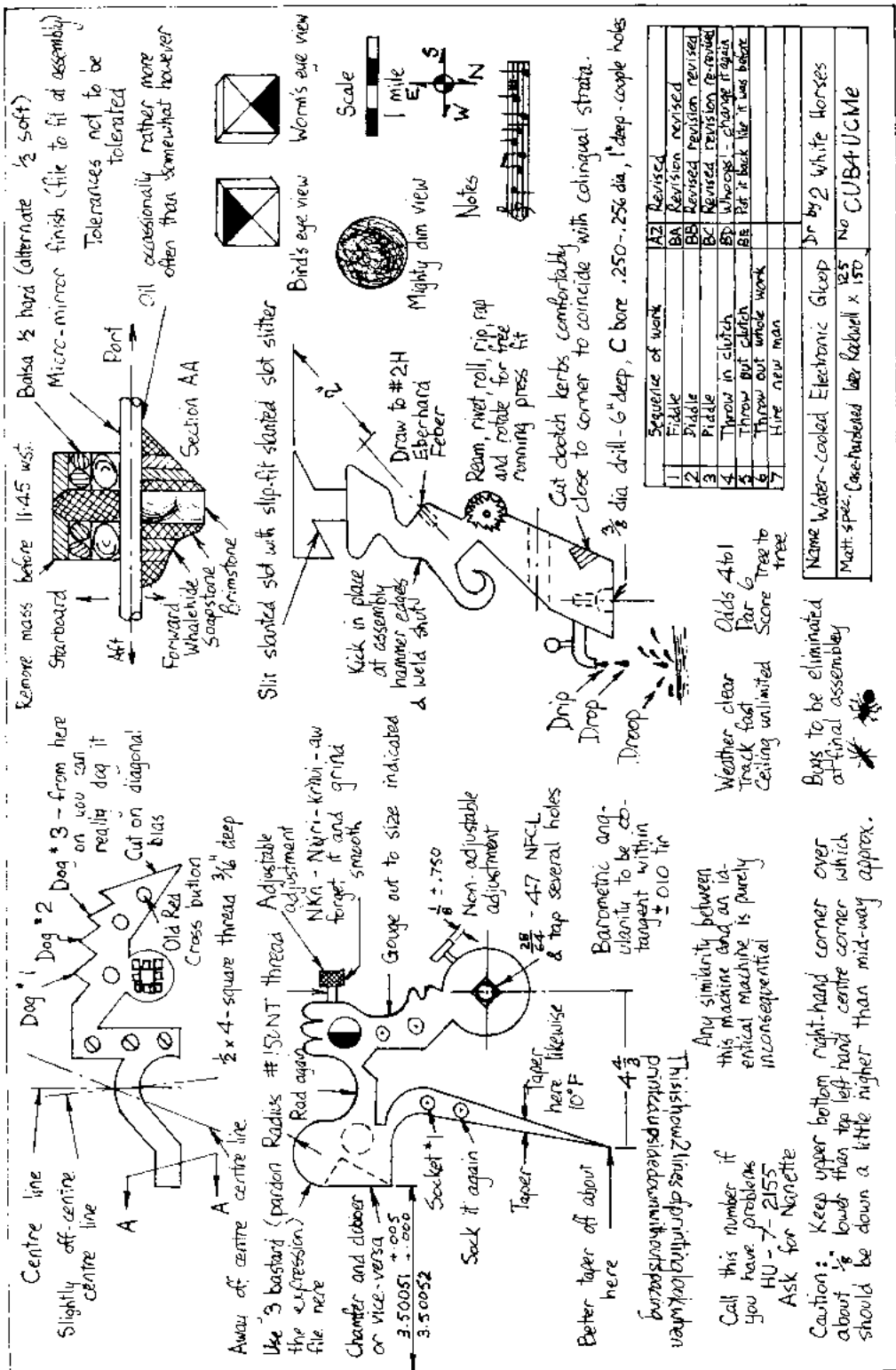
*— Bring tears of sadness to them that cast*

*there minds to days that went too fast*

*deep in the backstreets of our lives.*

STAN FOSTER

# WE THOUGHT YOU MIGHT BE INTERESTED IN THIS (PARDON THE EXPRESSION) DRAWING



# NORSEMAN

There has been much written and said about lack of group identity within the engineering faculty. This year there were 63 third year civils and yet, by the end of the year, most knew one another. This was further enhanced by a project created, designed and carried out just after the exams. It culminated a great year for third year civils.

The project involved the design and construction of a 30,000 gallon reinforced concrete tank for the Churches of Christ aboriginal mission, which is located just outside of Norseman. Most of the design work was handled by the students with J.J. Van der Meer doing the concrete mix design and quantities and R. Hebbert the hydraulics. It also involved laying a twelve hundred feet steel pipe from the mains to the tank and a five hundred feet polythene line from the tank to the mission grid. (The tank was needed as an emergency supply for when the mains supply failed). Materials were in some cases donated free and in others given at a considerably reduced rate by local business institutions.



The first intrepid travellers arrived by Wednesday the 15th December, not without trouble however. One of the vehicles broke down and had to be towed back to Coolgardie. This proved to be a good omen as the roadhouse was unique in that, to quote the waitress, "you get everything for the price of the meal."

Friday saw our first and only casualty, and being an engineer through and through, had the nurse conned before she could blink an eye lid. Not forgetting the rest of the guys he arranged to have twenty nurses meet us at Kalgoorlie Saturday evening. As most of the guys had only been away for four days they didn't consider the 250 mile return trip worthwhile and so spent the night at the pub. Five guys, nevertheless, set out excited at the prospect of 20 nurses but were soon disillusioned. Only four, of dubious merit, showed up.



Most nights, needless to say, were spent at the the local. Here after a few Hannans, the guys gave the locals a chorus or two of the traditional engineers' songs with an occasional brown-eye thrown in for good measure. So impressed were the locals that the guys decided to impress them even further with an original composition. The end result, sung to the tune of Here Come the Aussies, was The Aggas' song.

#### "THE AGGAS"

We are the aggas  
 Aggering is our game  
 We'll pick and we'll shovel,  
 As long as it don't rain  
 We'll work on in the Norseman sun  
 A team of aggas all as one  
 We'll shovel and we'll carry  
 Aggregate all day  
 We find in it much pleasure  
 But we don't have no say  
 We'll agree with our many chiefs  
 And keep refilling from our heaps  
 We'll shovel fine and medium  
 And most of all the coarse  
 And if you really want us to  
 We'll work just like a horse  
 We'll slog our guts out all night long  
 Just singing the old aggas' song.



#### AWARDS:

**Tex Cosson, Dickhead Blair, Cisco Grincer, Boris Lang, Spot Hewitt:**

Norseman heavies, composed and sang Aggas' song.

**Lok, Lau, Wong:** Asian contingent, constantly had to be reminded to be quiet.

**Harv Smith, Brown eye Coate, Pancho Schladow, Crim Harris:** Invited by local constabulary to spend an evening in the local lock up but for some obscure reason declined.

**Squizz King:** Responded to threat by police by drinking lemon squashes and chatting up the barmaid.

**Ben —** the initiator.

**Bags Baguley, Workhorse Jolly, Blandford,** Marathon talkers. Talked for 7 hours straight.

**Mr. Smooth Lalli.** A little despondent after his belated attempt at leaving a facial imprint in the tank floor after doing a half cart-wheel with a barrow of concrete.

**Streak Johnsen.** Swore for two days solid whilst supervising construction of his roof.

**Weebo Stone, C. Vigus:** Pool room hustlers.

**Goono Denny, Djulbic.** Put on their own show at the drives.

**C. Seckington, Irish Wallace, Godfather Madafferi:** Leaky tank repair specialists.

**B.B. Black:** Wild truckie, not averse to a glass of that ice cold liquid amber.

**TORE MADAFFERI  
 COLIN SECKINGTON**

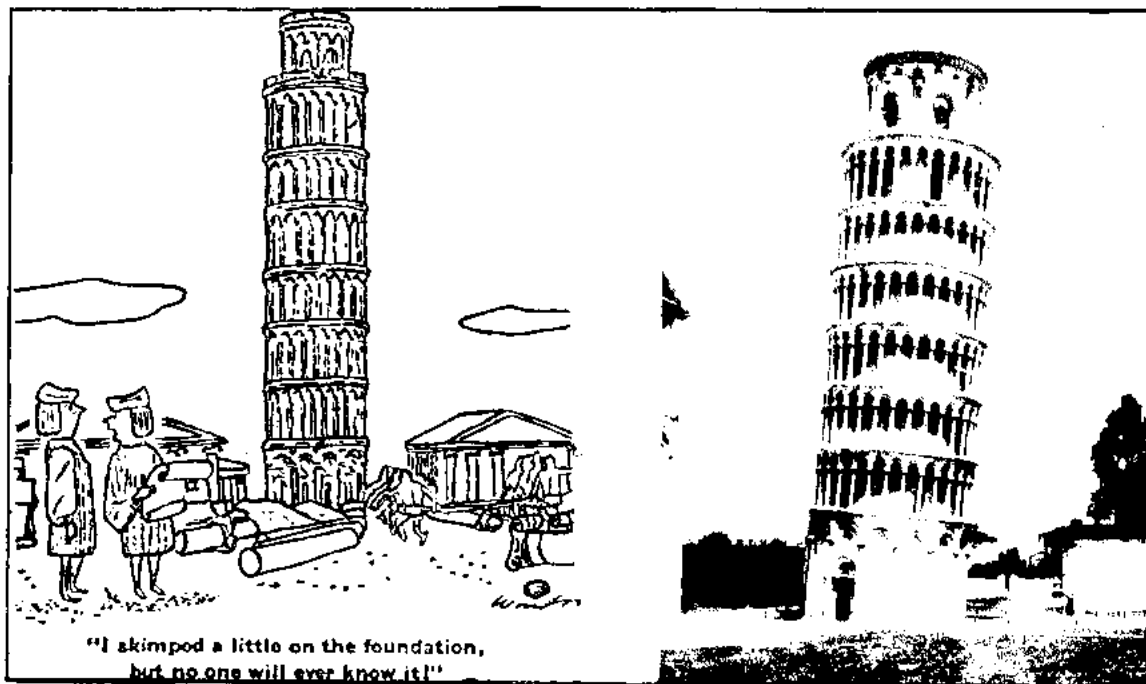
## NORSEMAN continued

### THE ORGANIZERS OF THE NORSEMAN PROJECT WOULD LIKE TO THANK:

ARC ENGINEERING PTY. LTD. Welshpool Road Welshpool. — Mr. Cangridge  
COCKBURN CEMENT, HAMMERSLEY BUILDING, St. George's Terrace. — Mr. Johnson-Ferguson.  
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EX-MINISTER FOR COMMUNITY WELFARE — Mr. Willsee  
DEPARTMENT FOR COMMUNITY WELFARE — Mr. Greenhill.

#### Also:

MR. JIM VAN DER MEER, Department of Civil Engineering, U.W.A.  
MR. R. HEBBERT, Department of Civil Engineering, U.W.A.



# north west power

In any industrial complex there is the need for power. How this power is to be obtained is a major decision. The decision will be influenced by existing grid systems, amount of power required, local supplies of fuel, cost of fuel, cost of installation of power plant and several other factors.

The mining companies in the N.W. of West Australia are faced with this problem of how to obtain the power they needed. In this area there is no grid system so the companies were forced to produce their own power. Several factors had to be considered: lack of funds, indigenous fuel and therefore transport costs of different fuels, and high ambient temperatures.

Power plants which came under consideration were diesel, gas turbines and steam turbines. The diesel engine, which will be referred to, is called a Middle Speed Diesel (M.S.D.) The engine is a four stroke trunk piston engine which runs at approximately 500 r.p.m.

Lack of funds makes cost per installed kilo Watt an important aspect. The cost per installed K.W. for the M.S.D. is cheaper than gas turbine or steam turbine, being approximately half the price of steam turbine.

The thermal efficiency of the M.S.D. at 40%, compares favourably with that of steam turbine 34% and gas turbine 30%. The figures are at 80°F. The differences in efficiencies becomes even more marked when the plants are run at the higher atmospheric temperatures of the North-West. The M.S.D. has a very sophisticated cooling system using turbo charging and an air to air radiation, which prevents any marked drop in thermal efficiency. A cooling system for the gas turbine has been developed for high ambient temperatures but the lack of suitable water and cost make its installation prohibitive for this region.

In the N.W. fuel costs are approximately 80% of costs. The M.S.D. has been developed to run on nearly all grades of oil including the lowest (cheapest) grades. Also the M.S.D. can be converted to use natural gas. Usually this would mean a reduced efficiency but using 5% oil the cylinder pressure can be brought up from 80 p.s.i. (pure gas) to 180 p.s.i. This compares with 250 p.s.i. when running on oil.

Besides the advantage of the M.S.D. over the steam turbine and gas turbine in major factors there are other small items which make its selection as a power plant desirable. The size of the unit is flexible. The output is changed by merely changing the number of cylinders. With its ability to burn all sorts of fuel there can be a reduction in the number of storage tanks and a reduction in different ships to bring in fuel. The delivery time of the M.S.D. is usually 10-12 months compared with steam turbines 3 years.

There is a limit to the size of the sets, but this is changing. Ten years ago 3 M.W. was the MAXIMUM SIZE. At present 10 M.W. sets are being used and a 15 M.W. set is being constructed. The increase in size is due to technological change so that the 10 M.W. set is not three times bigger but roughly one and a half. Although there is a limit to the size of the set, they may be coupled together as in Taiwan where there is a 90 M.W. station.

As can be seen the Middle Speed Diesel engine's advantage in this area over the gas turbine and steam turbine lead to the installation of the M.S.D. This has been done by all the mining companies except one that put in a steam turbine, which was installed several years ago.

*CRAIG MORRIS  
WITH TECHNICAL ASSISTANCE FROM  
MR. GARDINER*

---

## 1972 ANNUAL BATH TUB RACE

Due to universal apathy on the part of university clubs and their members, the 1972 bath tub race was the non-event of the year. Invitations to compete were sent to all clubs and societies on campus but the only entrant besides Engineering was Science. The result of the race was a foregone conclusion with Engineers running out easy winners. In order to re-establish this event we will need heavy advertising to boost the numbers of entrants and spectators this year.

# tugging

Engineers are born pullers! This fact was admirably demonstrated again this year when we won the Tug-of-War. Engineers are not, though, born tacticians. This fact will become obvious as our ensuing story unfolds.

12.45: The loyal men gathered in anticipation outside our hallowed (yellowed) hall, whipping themselves into that state of frenzy to be expected when nearly 100 people have not had their lunch.

1.00: The mighty Rope was finally found (in the concrete lab.) and the Engine's Tugging Team took up their positions. The Captain of Songs took the front of the hawser and the walk began!

1.01: Under savage attack from out-of-work market gardeners posing as Med. students! With tactical brilliance born of five years at Uni., your noble Captain of Songs ordered the two hundred feet of rope-bearing engineers to swing through ninety degrees, and the rope with its 150 singing carriers passed through the ref. (In a similar manner to the ref's products passing through 150 engineers).

1.05: Gathering in the Arts courtyard, 21.C. Storey called on the Captain of Songs to further whip up the tugger's spirits with some still oft-quoted words of encouragement: "Men!" (fact).

"We have won this tug every year since its inception thirty-four years ago! (completely unqualified made-up-on-the-spot type bulldust) so let's get out there and win it again."

"Yeah"! came the 200 answers!

1.10: Out into the sunshine came the singing crew, the Great Court ringing to the sound of 250 engineers suffering from that time-worn personality identification problem:

"Who are, who are, who are we?" etc.

1.15: The 2nd Div. market gardeners started their games again and after much squelching of bare feet on decayed fruit and other more lowly med students, their tugging team was sent back to the cadaver factory:— Meds are always a bloody waste of time.

1.25: The Law "team" emerged from out of the trees to the massed boos of the 300 strong engineering camp. Speaking of camp, those Blackstone Bludgers were pathetic!



# engineering style



1.35: After 10 minutes of addressing the Court, the lawyers finally decided to put their feeble resistance against the mighty "Machine".

1.40: The victorious Engine's team refused the Bludger's request for a "best-of-five" competition (after Law having lost twice), so they started being dirty.

"BANG! . . . BLOODY BANG!"

They were trying the old "bang . . . bloody bang" routine again! Not impressed, 21.C. Storey asked politely if he could mind the "R.U. Pulling" cup, and was quietly walking away when the Bludgers and Market Gardeners thought that he might not return it — fancy that! The chase was on! Away he went across the court with 350 engineers fighting a victorious rear-guard action against their 800 opponents whilst Phil leapt through the moat with his prize under his arm.

While waiting on the library verandah for his pursuers to catch up a bit, 21.C. put the cup down and — lo and behold — they grabbed it, to be spirited off to the bludgers' battlements!

1.45: This done, the valiant engine's crew thought many of their opponents might appreciate a swim, so they conducted the poor dears to the edge of the pond with great decorum. For some inexplicable reason many objected but were still quite quickly convinced.

1.50: There being nobody left to talk to in the Great Court, we 350 mighty men retrieved our string and started for home . . . would you believe it . . . the rabble were all waiting for us on James Oval! We were so popular! They kept on running up to pat us on the back and touch our rope . . . Hero worship I guess. After regaining the Captain of Songs helmet from one overwrought (and overfast) fan we finally made it home.

1.55: Thought we might sneak in a few quiet ales down at the local before the two o'clock lectures, so 100 or so men rode shotgun on the Good Book (the order book that is) and we did the right thing until the "management" got upset, to the point of violence, while having the profanity to call your very own Captain of Songs a lawyer!

10.10: The four or five of us still standing decided to call it a day . . . which it most undoubtedly was!

STAN FOSTER



# goyder cup

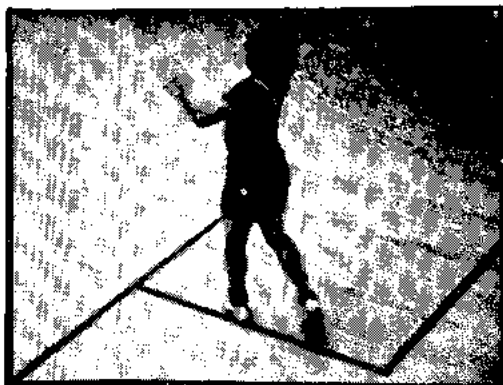
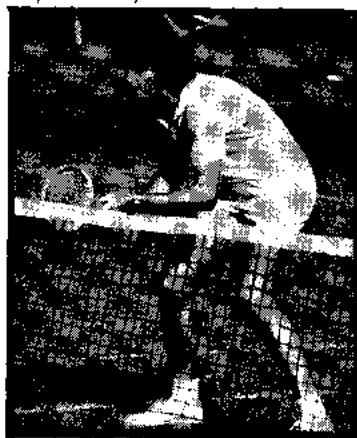
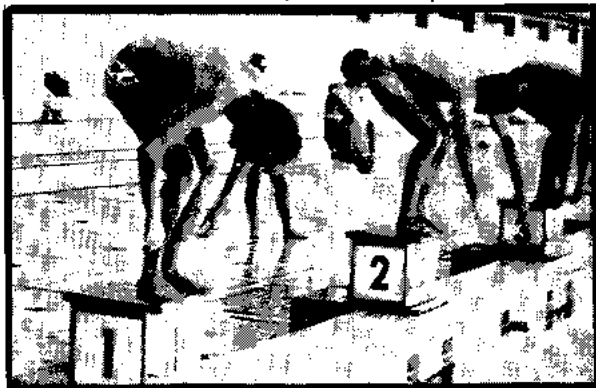
True to form, Engineering proved beyond all doubt that they are the strongest faculty on Campus, with the easiest of victories in the 1972 Goyder Cup Competition. The final outcome of the overall results was never in question, although it had been rumoured that Medicine were seriously trying to wrest away our title. Traditional rivals Education did not provide any competition whatsoever this year. Had they done so, Engine's would probably have risen to even greater heights.

The competition started out with a shock reversal of form for Engineering in swimming. Coming from eighth in 1971 to second in 1972 was due in no small part to Messrs. Medbury, Morris, Morris and yours truly (of course). So pleased was our Vice President with this effort, that he slipped and fell into the pool, and, in swimming to the end was promptly awarded one dozen cold ones by the Uni Swimming Club. Following this activity competitors and spectators

ajourned to Steves for incentives following which, Fossy was very ill.

The heats of the soccer saw Engineering have resounding wins over Economics (7-0) and Law (2-0). All was set for grand-final victory over Arts. However, due to the team having had a somewhat trying time the night before, and also with the prospect of another one to follow, Arts managed to sneak in one extra goal to give us only second place. Following the soccer, those present adjourned to the Floreat for incentives, following which Fossy was very ill.

Consistency was the word with tennis, where Engines made fourth place as they did in the previous year. Obviously a better placing would have been assured had not Margaret Court and Evonne Goolagong, cleverly disguised as Med students, been able to compete. Following the tennis, incentives were held at Steves, following which Fossy was very ill.





**Athletics** showed an improvement for Engineering this year when we ran comfortably into fourth place. A great effort was put in by Stacey who won the high jump and came third in the long jump. Jock shocked himself and all present by coming third in the shot-put, saying afterwards that he was shot-off and had decided to put things right. Following the athletics, incentives were held at Steves after which both Jock and Fossy were very ill.

The introduction of **Badminton** to the competition was of benefit to Engineering. With a strong and enthusiastic contingency of Asian students, Engineering coasted away with an easy victory. **Squash** players are somewhat of a rare commodity in this faculty and following the win in Badminton, it was a trifle disappointing to gain only fifth place. However, spirits were rejuvenated at the incentives which followed.

The **rugby** was somewhat of an anti-climax in that only four teams entered the competition. Engineering won the heat against Economics (11-6) and final play-off against Law did not even eventuate. Obviously the presence of our 1971 U.E.C. President inflicted a great deal of fear into the Lawyer's hearts as they could not field a team. "You bewdy Russ!" Incentives were enjoyed by all (both weeks) and in particular, by Fossy.

**Football** saw yet another run-away win for Engines. With a team boasting State and League players, what would you expect! In the heats, Engines beat Arts (6-1 to 1-2) and Medicine (4-3 to 2-4). It was indeed difficult to pick any players who didn't star in some way except perhaps Fossy, who missed a goal from point-blank range. Most people expected a close final against Economics in the following week. However, this was not the case, when Engineering won easily (8-2 to 2-7). Highlight of the game was the vigorous manner in which Jim Gugich approached opponents. An exceptionally large number of people fronted for incentives following that game, and most ended up being slightly more active than they were during the game.

**Table-Tennis** unearthed many champions from several faculties, most of whom were of Oriental origin. Our own Bernie Goh and Neil McNab showed great fighting spirit and helped Engines to



gain third place. The incentives which followed showed Bernie and Fossy fighting spirits, the latter person being quite ill afterwards.

There is little to say about **cross-country running**. Since only two teams dared to oppose Engineering. It was fitting that we won, since we organized it, but aside from that, there was no real competition anyway.

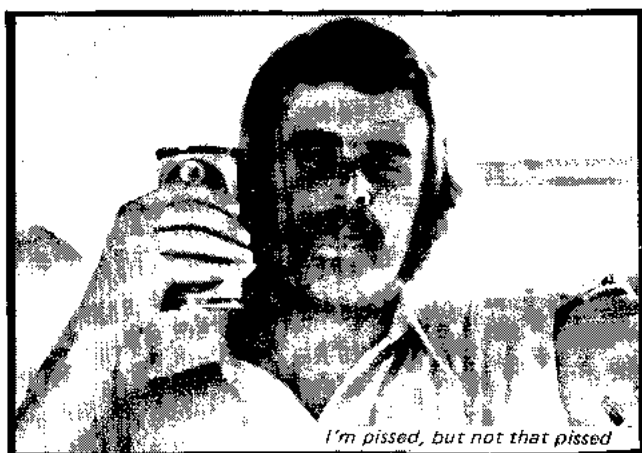
Good things were expected of our **Rowing** team especially since the U.E.C. had offered to lend the team genuine club tee-shirts for the event. However, due to some corrupt organization, Engines were made to row what resembled a hollow tree trunk whereas the other teams rowed legitimate vessels. Despite this handicap, the team managed a very creditable fourth place.

The final event of the year was **basketball** on which the final result of the Goyder Cup competition could have depended. (In the unlikely event of Engineering getting third at worse). An enormous gathering of Engineering supporters was present and perhaps this gave the team a slight touch of stage-fright, for after winning all the heats easily, the team went down to Medicine by one point in the final. However, there was some controversy about the time-keeper who was a Med student and who, it was alleged, stopped the game too early.

This, then, was a moral victory for Engineering, and in any case sealed the issue as to whom the Goyder Cup for 1972 was to be presented. Much to everyone's surprise, Fossy was quite well at the incentives which followed.

The year ended on a somewhat unusual note. Fears were held as to the future of the Goyder Cup, and with this in mind, an enthusiastic and anonymous Engineer plucked the Cup from its Guild residence and placed it in its rightful home — the Engineering Common Room Trophy Cabinet. Hopefully, this action will be deemed unnecessary by the continuation of the Goyder Cup competition in its present form. Should this not happen, then we will be at ease knowing that the symbol of campus prowess will remain forever with Engineering.





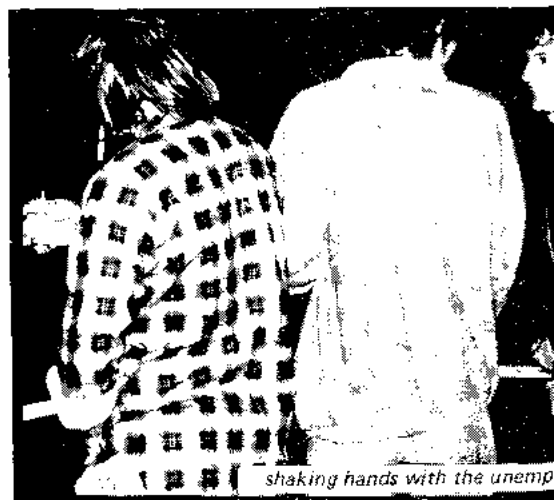
*I'm pissed, but not that pissed*



*ergines sex shop*



*the cops didn't like it*



*shaking hands with the unemp*



he's water cooled, he needs to be

future engineers . . . . ?

loyed.

# grudge

The year 1972 was a good one for the U.E.C. We saw two successful balls, won the Goyder Cup and had a great club spirit. But 1972 was a good year for another reason. It was the birth of "Grudge".

Grudge is a condition suffered by lower years for the fourth years. Everyone experiences it during their stay with the U.E.C., until they're fourth years. This is most prevalent in civil, where the senior students are looked upon as being slack, lazy and cliquey. This, of course, is completely untrue. However, this state of friendly envy has been kept within for too long and now with Grudge, the first, second and third years will start to respect and worship the mighty fourth years.

Last year Grudge took the form of a footy match between the third and fourth year civils. It all started at the victory celebrations of the Goyder Cup footy win. The usual arguments of "we're better than you" and "we could kill you!" rang out between some beer swilling third and fourth years. Then it happened, and silence reigned as the now famous words were spoken.

"We challenge you to a game of footy".

At first there were gasps, then silence, then laughter, culminating with earnest planning and scheming as the challenge was firmly accepted. So it came to be that the inaugural Grudge footy match was to be played on the 26th of July, 1972, at McGillvray oval, and thereafter at any suitable venue whatsoever volunteered.

Preparations for the important game included team selections, training in front of Engines at lunch time, the creation of the "Grudge Trophy" and attempted verbal demoralisation. Everyone concerned was taking the event seriously. But the third years were showing the most confidence.

The big day was here. The teams were selected, the kegs bought and the venue for the celebrations established. Panic at 12.00 a.m. The trophy had been stolen, no one knew where it had gone, only

to turn up at a noted Elect students abode. But the main thought was the game. Field umpire Jarvis warned that he would keep firm control, and the teams lined up for battle.

The Civil III team was now superbly confident. They had the big names and the most footballers -- Blair, Nadilo, Grincer, Gugich. The fourth years were lead by Mr. Football, Rottsie with Waugh, Cordin, Darrigan and Loh as some big names.

The game started off at a fast and furious pace, no bumps were spared, as players threw themselves in with reckless abandon. Kicks were hard to get and goals even harder. The umpire held firm control as tempers could have easily become frayed. The toughness of the game was evident in the half-time scores, only two goals each and the Civil IV's only a few points in front. But the most noticeable point about the game was the fact that the third years didn't have it all their own way as they had expected. In fact, they couldn't have any of the game their own way. The play was of a particularly high standard, with some unknown talents catching the eye.

The third years were worried. The opposition was stronger than they had expected. But they still showed contemptuous confidence. However, the fourth years were now brimming with confidence, as they knew they were bigger and tougher. The third quarter started with the third years still expecting an easy win.

However, this was not to be. Even the most avid fourth year could not have expected the third quarter display with brilliant play-on football and accurate kicking and sound marking, the fourth years slaughtered the third years to the tune of five goals six behinds to one goal. Former hockey player Chip Challenor was playing a superb game on the half forward line, the rucks Hemish, Darrigan and Hillman were killing the opposition, Pete Waugh and Steve Meyrick stopped all the third year attacks. With some straighter kicking for goal the fourth years would have been even further in front. But now with a lead of over five goals the task was in front of the third years to get back into the game.

The result was all over. The fourth years had stopped to a walk and the third years were allowed a few easy goals. Through Blair and Nadilo, with Grincer flashing in, the third years got close. The fourth years could see the game slipping, as the third years gallantly fought their way back into the game. The game was on again. Then a goal to Thorpe and it was all over the fourth years had achieved the just result - victory by eight points.

CIVIL IV	8 - 10	58
CIVIL III	8 - 2	50

The outcome was fated from the start. Being fourth years, they are obviously superior and equal to any task thrust upon them, including football matches. So now the Grudge trophy belongs to the fourth years, where it should stay till eternity. But now the onus rests with the new fourth years this year and the third years to challenge for Grudge, only to find that they can't defeat these mortal beings. And the first and second years, get in the spirit and throw out a challenge, whether it be football, volleyball or darts, and help put Grudge high on the pedestal of the U.E.C.

#### ROTTSIE - AN EX-FOURTH YEAR



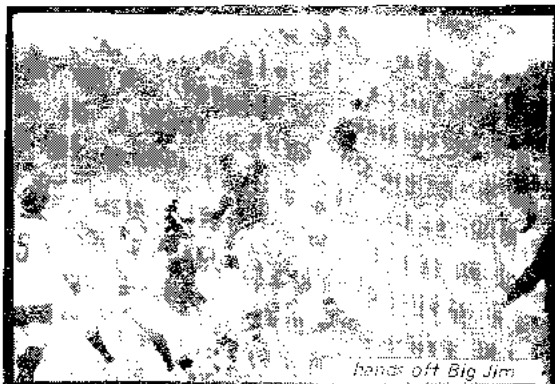
"GREEDY" as usual



DICKHEAD is on your side SECKY



right side this time SECKY



hands off Big Jim



# the helpers

*I would like to thank.*

## DON

*Who looked after all the articles i.e. about half of all the work of the magazine. (It serves him right for being so darn enthusiastic in the undertaking).*

## DAVE

*Who got stuck with the year notes — sucker!*

## PAUL WALSH

*Who got caught into the layout. He'll learn not to say where he's working.*

*Plus a whole pile of other people including:*

Tore Madafferi  
Richard Silvester  
Stan Foster  
Warren Morris  
Craig Morris  
Paul Harris  
Ron Thorpe  
Goh Chin Hua  
Joye Modra  
John Cornish

Greg Milne  
Ken Law-Davis  
Benjamin Kooperman  
Peter Barnett  
Dave Pullan  
Ross Cargill  
Fred Noteboom  
Peter Basanovic  
Jock Howe  
Colin Seckington

Rod Hammond  
Alan Mills  
Rhonda Luttrell  
Melodie Petrides  
Brian Smith  
Geoff Schladow  
Lynda Willis  
Dave Wallace  
Derek Schapper  
Ken McFarlane

*... and a helluva lot more, including people who had offered assistance but whom we were unable to use. Thanks go to the Guild composer operator, Anne McInerney and Don Eade, our chosen printer of Speed de Print, for their invaluable assistance. Thanks also go to the following bodies for showing their interest in the student Engineering body through assistance to Non Loqui.*

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*To all a sincere thanks.*

CLIFF GREEN  
Editor.

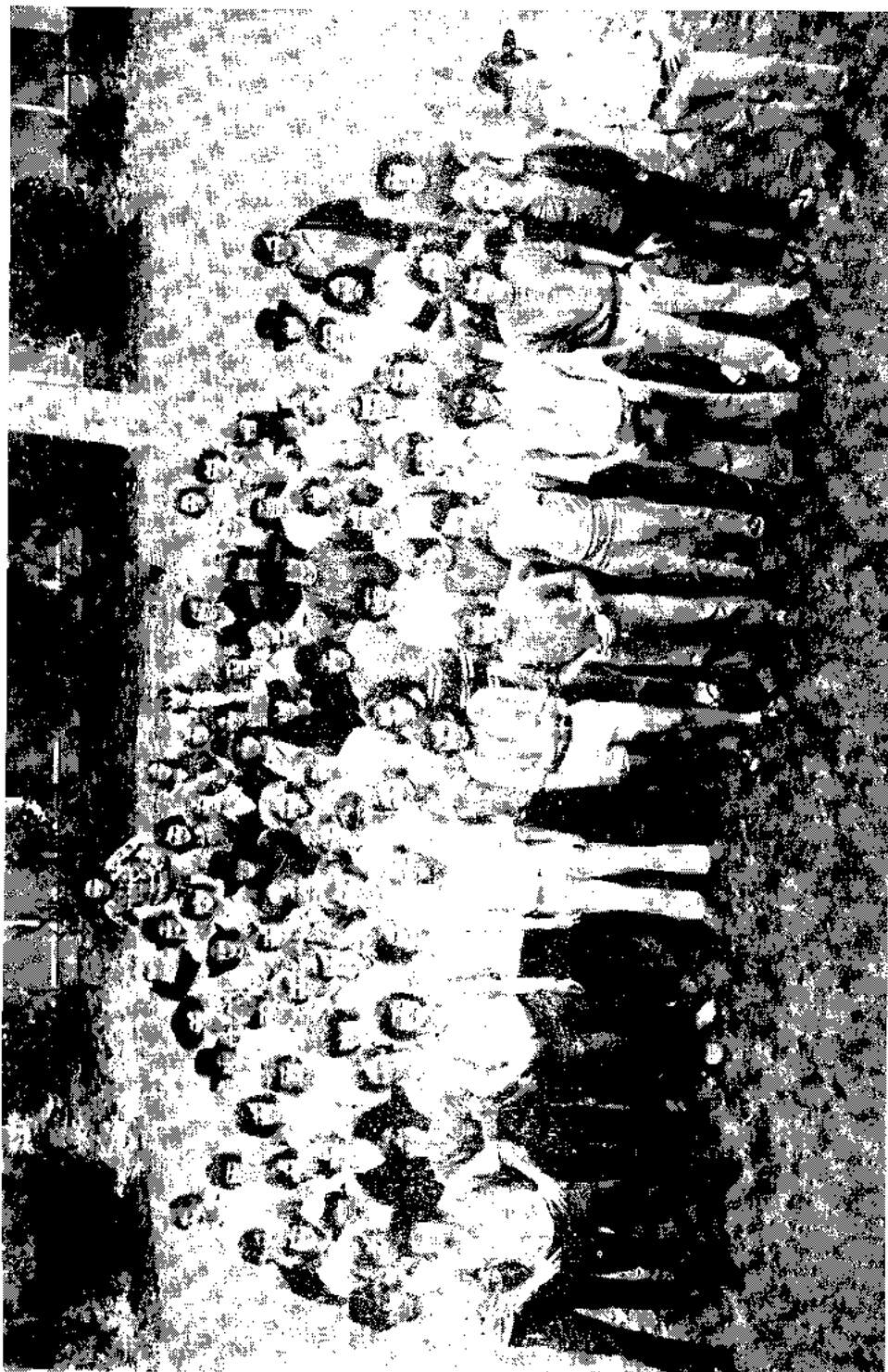


# year notes



SIX MUNCE UGO I CUTNT  
EYN SPEL INJUNEER  
AN NOW I ARE ONE ...

# first year



# second year





*K. Koh; D. Sheridan; C. Cheong; S.L. Liew; K.H. Lau; C.K. Wong.*

*K. Maley; R. Leslie; K. Modra; R.L. Chong; S. Lapuma; B.C. Tan; J.H. Ong.*

*B. Chan; D. Cornish; C. Green; P. Walsh; N. Kong; T. Voon.*

*R. Silvester; T. Yong; C. Goh; E. Healey; K.C. Chew; H.L. Chew.*

### THIRD YEAR MECHANICAL

**CHAN BUN SOON**

"Eh, how about let me get it photostated."

**CHEONG CHOI**

Professor Cheong. Asks fantastic questions.

**CHEW (RICHARD)**

As tall as he is round, married and five months pregnant.

**CHEW**

Great ball player. A fair dinkum Australian Asian.

**CHONG FOOK LOONG**

"Yes, Yes, Yes." Always a smiling face

**CHUA (DAVID)**

"May I have a look". As cheeky as a monkey and almost as smart.

**DON CORNISH "Hawkeye"**

Known to study in between rugby, swimming, running, rowing, drinking and conning.

**GOH C.H.**

One of the lads doing honours and loving it?

**CLIFF GREEN**

Loves co-editors and year note organizers who try to insert derogatory comments.

**GREG HAMBLETON**

"Ape man" drives a mini moke and smokes a mini smoke.

**PETER HAWKEN "Joe Cool"**

The super cool guy with the super cool beard.

**JOHN HEALEY**

Has a moustache and a "little" yellow waistcoat to match.

**KOH K.C.**

Walks around in a daze but still got 6A'S.

"Have you done your report yet."

KONG N.M.

The quiet sophisticated type, he's in with Goh and Yong.

SIL LAPUMA

Always designs original arbor presses that can withstand any normal stresses.

LAU (LAWRENCE)

"Geeat compromise". Supports the Australian Wool Industry in mauve.

ROY LESLIE

The bigger they are the sooner they fall. Great guy.

LIEW S.L.

Would make a good sign writer.

PHIL MALEY

A pilot and a diver, can't decide whether to go up or under.

KIM MODRA

Met his wife while stroking on the river

MOHAMAD A.B.S.

Always looks so relaxed, must sleepwalk.

HANS OLMINKHOF

He and his orange tee-shirt are obviously dynamically balanced.

ONG (JOE)

Races a blue VW in-between breakdowns and lubes.

NICK PATRICK

The smooth man who drives a little green van.

MIKE PERREAU

The digital computer who wore shorts and thongs.

TOM PORTER

Employs his own cook; while in between he studies.

DAVID SHERIDAN

Fast with the women and quick with the stick. Tries *EVERYTHING* and usually succeeds.

RICHARD SILVESTER "Dick"

Swings from the rafters in-between moves. Lecturer's automatic error finder.

TAN BOON CHEE

"But you see this is different." He speaks so deeply, he can move nations with a single note.

VOON T.C.

Admires birds. Must sleep in taxis, sleeps everywhere else.

GARY WAKE

The unholy man with the holy jumper.

PAUL WALSH

If he was as quick with his women as he is with his bike, you'd have to wonder what his women were like.

WONG (DAVID)

"Have you done any problems yet? Well don't worry mate." Giant from the jungles of Borneo.

YONG T.L.

"YA, YA, YA". A friendly guy, who always has his lab reports on special.

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MINCHIN

"You can make things fool proof. But not bloody fool proof."

APPLEYARD

Hope someone gave him a water cooled pen for Christmas.

COLE

I wouldn't assume something I wouldn't assume myself.

JOHNSTON

Statistically speaking the following hypothesis is probably true.

DEAKIN

Enthusiastic approach to lectures.

GUY

Gave a magnificent set of notes and showed us that poms are all right.

CUMING

Always gives you the impression that he knows what he's talking about, and does.

WAGER

Does everything with great precision. When describing something his thumb and forefinger are exactly 25.4mm apart.

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Take kindly the counsel of the years, gracefully surrendering the things of youth. Mature strength of spirit will shield you in sudden misfortune. Do not distress yourself with dark imaginings. Many fears are born of fatigue and loneliness. Beyond a wholesome discipline, be gentle with yourself.

You are a child of the universe no less than the trees and the stars; you have a right to be here. And whether or not it is clear to you, no doubt the universe is unfolding as it should. Therefore, be at peace with GOD, whatever you conceive him to be. And whatever your labors and aspirations, in the noisy confusion of life, keep peace with your soul. With all its shame, drudgery, and broken dreams, it is still a beautiful world. Be cheerful. Strive to be happy.



*F. Lucas; M. Smith; A. Mills; R. Calligaro; A. Zaknich; C.L. Hong; M. Eng.  
Kwan; K.R. Orkney; C.W. Goode; D.S. O'Sullivan; P. Cantoni; A.J. Weijers; H.Y. Lee; V. Raich.  
N. Caro; N.H. Thanh; M. Norman; F. Noteboom; E. Nind; R. Cargill; A.W. Gummer; A. T. Lim.  
G. Turnbull; T.H. Teh; G. Oma; G. Johns; P. Canavan; C.H. Leung.*

### THIRD YEAR ELECTRICAL AND ELECTRONIC

#### RIC CALLIGARO

wants to rate FETS in horsepower.

#### PETER CANAVAN

Noddy and his VW

#### PAOLO CANTONI

Upsets lecturers with his facial contortions —  
crashes cars and computers with astounding  
ease.

#### ROSS (D) CARGILL

new shoes will have to wait for a windfall at the  
races.

#### HONG CHOON LEONG

Treats his lecture notes as toilet paper.

#### ENG MENG SWEE

A good friend of anyone who has a sister.

#### BILL FOSTER

Fosters is thicker'n water . . . changes sports cars  
more often than his underpants.

#### GORDON OMA

'Babe' . . . Known to go to Currie Hall during  
pracs.

#### CHESTER GOODE

Engineer (?) who associates with Science students  
. . . another of the winners in the marriage stakes.

#### TONY GUMMER

Pretends that he has a beard.

#### PETER MALASPINA

Brings his bird to Maths to take down notes.

#### ALAN MILLS

Very reliable electronic components catalogue.

#### BOB NICHOLS

'Mr. Quiet'.

#### TERRY SELLNER

. . . 'as a query' . . .

#### HAYDN PICKERSGILL

Misses Ziggy terribly.

VLADO RAICH

Half a drive-in theatre but no car

W.C.Y. KWAN

The best car dealer in class. Good taste for high quality cars . . . would prefer Valiant to Volkswagen.

LEE HENG YIP

Rather chief cook than chief engineer

GREG JOHNS

Combines blondes with a panel van.

EDDY MANDAVY

Psycho-analysed by women . . . constantly.

FRANK LUKAS

Addicted to loquats. Believes that squash should take precedence over Prof's lecture.

EDDIE NIND

The Blue Streak . . . scared shit out of the Prof.

MICK NORMAN

' . . . but I can't see it intuitively . . . '

FRED NOTEBOOM

Able to stomp small buildings with one foot.

KEITH ORKNEY

Celebrated his engagement with a swim in the library moat.

SHANE O'SULLIVAN

Comes to pracs only after Police raids to tell everyone.

PETER SHAKHOVSKOY

Need a crowbar to separate him from his bird.

MALCOLM SMITH

Sheer hell whenever his flak jacket is washed.

GREG TURNBULL

' . . . it's a piece of piss . . . '

ARNOLD WEIJERS

Returned from Nashos to advise the latest intake.

TONY ZAKNICH

Can add six digit numbers with one finger.

LEUNG CHI HONG

Hong Kong James Bond . . . has to climb a chair to deliver any karate chop.

LIM AH TER

'Shi . . . it, I missed it again.'

RUDI TEH

The only well dressed short gentleman in class.  
Might one day become caretaker of Jewel House (nurses quarters).

THANH

Lecture time is the best time for sleeping. What is he up to during the night.

T. ITHISARIYANONT

Popular customer of Xerox. Looking forward to thrashing Bobby Fischer in the next World Chess Championship.

ANDREW LIM

Enjoyed shifting house and nothing else.

LIM JITT BOO

Never stops complaining. ' . . . If . . . '

LIM KOK LAI

One of the nice guys in the class.

AL HONEYMAN

Long haired lover from Leederville.

NOEL CARO

Ensures that the lecturers earn every cent of their salaries.

J.H. BUNDELL

'If I had something heavy I could kill one of those buggers . . . '

J.V. FALL

'Any fool can understand this . . . if you can't you're not a fool.'

J. LIVINGSTONE

'It's just not on . . . '

B.G. LEARY

At 11 o'clock: 'Why the hell didn't you stop me at a quarter to.'

A.G. NASSIBIAN

'Let us take an example, for example.'

J. HULLETT

Sufferer from virulent West Australian wogs.

W. HONIG

Knows lasers back to front and is now blind.

A.B. SCOLARO

'You idiot . . . '

## ONE OF THOSE!

What is an engineer? Who knows! He has the reputation of being a beer swilling, sex crazed, thick-headed moron who inhabits that part of the campus which is miles away from the female-ridden campus. But apart from sex (and other immoral activities!) the engineer is not interested in woman — he'd rather tub, tug, row or do anything else the law faculty challenges him with. The engineer is an all-Australian type of bloke — revolting.

BUT viva the illiterate engine:—

"Six munce ago etc. . . ."

AND SHE MARRIED ONE.



*T. Madafferi; L. Baguley; M. Hewitt; A. Richardson; C. Gardiner; C. Lok; A. Chung; B. Smith; B. Black,*

*G. Larkins; D. Wallace; J. Radaich; I. Unkovich; A. Kelly; G. Fitzpatrick; K. Stone; K. Nadilo; D. Blair; A. Grincer.*

*P. Jolly; N. Blandford; K. Bradley; M. Crawford; G. Denison; R. Walker; M. Coate; A. Ruskulis; P. Scott.*

*A. Plummer; D. Brooks; V. Mitsopoulos; Wahab; L. Edmonds; Wong (Albert); A. Gibson; C. Vigus; J. Wang.*

*G. Broadway; M. Lalli; B. Kooperman; P. Harris; M. Johnsen; P. Basanovic; M. Cosson; S. Djulbic;*

*R. Kelliher; D. MacDonald; P. Marks; I. Denny; G. Schladow; J. King; G. Lau; V. Ariyaprakai.*

### THIRD YEAR CIVIL

#### ARIYAPRAKAI

The man who doesn't have much to say unless he has to.

#### BAGULEY "Bags"

Was odds on favorite for best dressed man of year award until seen wearing orange cords.

#### BAKER

A master of ceremonies. Has also mastered women and football.

#### BASANOVIC "Bassa"

Big, bad Pete. Loves conning many different women.



**BAYNES**

Silent Sam has many talents, including rugby and modesty.

**BLACK**

Black's the name, Blacks the game. Is chock o'block on his block.

**BLAIR "Dickhead"**

One of Australia's foremost football coaches. Will be gaffed by first term.

**BLANFORD**

Impossible to get a word in edgeways once in full stride.

**BRADLEY**

5'-10", 15½ stone, its big Kev. Gulps down beers by the pot.

**BROADWAY "Mr. Athletic"**

Reputedly seen at Sir's International . . . can't work out why. Gill is waiting for a car at the end of fourth year. Until then he drives around in a mobile foundry.

**BROOKS**

Quiet one. Had bird tucked away and can't even say it properly.

**BRYANT**

"Isn't love a wonderful thing." Good luck Denise from the crew.

**CHATJARERNISWAD "Sleepy"**

Often seen going into geol prac at 2.00 p.m. and leaving at 2.15 p.m.

**CHUNG**

Definitely a ladies man, used to get two letters a day in Kununurra!

**COATE "Conch"**

Most prolific browneye flasher, however lacks a photogenic arse.

**COSSON "Tex"**

"You're laughing". Bartons the name, Swans is the game.

**CRAWFORD**

Philosophises instead of chundering when pissed.

**CWIEK**

Vince must own shares in Peter Stuyvesant. Conned his way into deferreds.

**DENISON**

Found his true love and finally came into some smokes.

**DENNY "Goon"**

Believed to have been seen dancing into the small hours with a slide rule in one hand and a handbook in the other.

**DJULBIC "Emma"**

Thought by Sacks to be the nicest boy in the class.

**EDMONDS**

Would much rather sleep during lectures than at night.

**FITZPATRICK**

Mark is the big silent type who has a nice chick stacked away somewhere.

**GARDINER**

Man to see about soils reports. Doesn't believe in overworking himself.

**GIBSON "Grub"**

Is well in hand out of lectures but tends to break loose on lecturers in lectures.

**GRINCERI "Greedy" or "Cisco"**

Has never been seen with a woman yet, but has given up chasing Conch.

**GUGICH**

Drives a charger when allowed off the leash. Dislikes protruding chimneys.

**HARRIS "Crim"**

Had an all expenses paid holiday at Wooroloo during the year. Robbies mate.

**HEWITT "Spot"**

Has a really nice chick. Always in stirs. Stirs always backfire on him.

**JOHNSEN "Golly" or "Streak"**

"She'll be right mate." Appreciates a swim in the raw.

**JOLLY**

Last seen proposing to a horse.

**KELLIHER**

Made a mint for bookies when he didn't make the grade in the 1972 Marriage stakes. However, could be a different story in 1973.

**KELLY**

C.M.F. Man. Looks at birds, whistles at birds but can't figure out what else to do.

**KING "Squizz"**

Would have taken his gripe about the Cat Stevens show to the United Nations General Assembly if he hadn't been offered free tickets to see Roy Orbison.

**KOOPERMAN**

Look! Up in the sky! Its a bird, its a plane no its Kooperman, Burgess is his hero.

**LALLI "Smooth"**

Mick gets best dressed man of year award. He wasn't seen wearing orange cords.

**LANG "Boris"**

"Ask yourself, why not?" At his best when he's had a few, has been engaged and disengaged six times in one night.

**LARKINS**

George studies, rows, studies, drives a Triumph, studies, takes out his bird, studies.

**LAU**

Right wing activist.

**LIANG**

Unknown quantity, sits in the front row for all lectures.

**LOK "The Hong Kong Flash"**

Narrowly missed out on surveying prize.

**MADAFFERI "Godfather"**

"I will make you a deal that you just can't refuse". A true leader and dedicated worker.

**MARKS**

Wrote the Communist Manifesto and now plugging for quarter past the hour lectures. Will definitely be late for his honeymoon.

**MITSOPOULOS**

Needed all the guile he could muster to stave off the advances made by gorgeous Red head in Geol pracs.

**MACDONALD**

Managed to pass without much unnecessary work.

**NADILLO "Flaps"**

Has had a great time with the women and a slack time with the books (wishes it were the other way round). A golfing fanatic.

**PLUMMER**

Plays a mean game of squash. Does well with both his head and his feet.

**RADAICH**

Member of "All Australian" half back line.

**RICHARDSON**

Prejudiced against city women, but likes Geraldton sea air

**RUSKULIS**

Took the last two weeks off from Uni. to study — now doing honours.

**SCHLADOW "Pancho"**

Most original campaigner in U.E.C. elections — and still lost. Has a very nice chick.

**SCOTT**

Known to like his golf. He and Flaps are challenging Arnie and Lee for the World Championships.

**SECKINGTON**

Never smokes more than 40 cigarettes a day. Worried about formwork all of third term.

**SMITH "Harvey"**

Studies by night and sleeps by day. Good mate of Weebo's. Is now fluent with fluids.

**STACK**

Married man. Will be probably called on for advice next year. Beats his wife — at squash.

**STONE "Weebo"**

Looks and looks and looks at women but still can't figure out what purpose they serve in life.

**UNKOVICH**

Member of the famous half back line. Dedicated worker all year round.

**VAN DONGEN**

Never seen at Uni. after lectures. Our soccer champion.

**VIGUS**

No longer believes in Vauxhalls after trip to Norseman. A great guitar player.

**WAHAB**

Smart man about town. Knows how to use the computer well.

**WALKER**

Richard works hard but doesn't play cricket or football. What does he do? — Stella.

**WALLACE "Irish"**

In Australia, if you wanted to be one of the boys, you smoked behind the toilet block. Dave hunted Catholics instead.

**WANG**

Jwu is a good all rounder. Plays the tom-toms well.

**WONG**

Hero of working class. Works hard.

**CLEGG**

Plenty of enthusiasm. Enjoys soils and soils.

**JEWELL**

Made a mistake when he expected the third years to roll up at 9.00 Monday morning.

**HEBBERT**

Last seen telling the boys to make it to fourth year so that they can make the South West Tour with him and some tubes.

**MASSEY**

"Well I think that will be sufficient for today".

**REYNOLDS**

"Its all basic statics."

**SACKS**

Actually believed that he understood us.

**SILVESTER**

Super efficient (?). Believes in the seventy hour week.

**SMITH**

Believed to lead the best life in the faculty.

**A. VAN DER MEER**

Whisper is around that he might strike it rich pretty soon.

**JIM VAN DER MEER**

Left us without a pissnick leader. A good swimmer in the altogether.

**WATANATADA**

Fluent with his fluids but . . . . .

**SONG TO A FUTURE POLITICIAN**

*An apple to be plucked,  
I wait for my time.  
To be discovered for my brilliance,  
And shackled in the prime.*

*To make this a better life,  
Lead us to the top.  
Share our land's wealth,  
Amongst the whole lot.*

*Hell; this country's fall'n;  
Go'n down in disgrace;  
If there is a doctor in the house  
I wish he'd show his bloody face.*

ENGINES I - 1972.

# Murphy's Laws

## PROTOTYPING AND PRODUCTION

1. Any wire cut to length will be too short.
2. Tolerances will accumulate unidirectionally toward maximum difficulty of assembly.
3. Identical units tested under identical conditions will not be identical in the field.
4. The availability of a component is inversely proportional to the need for that component.
5. If a project requires  $n$  components, there will be  $n-1$  units in stock.
6. If a particular resistance is needed, that value will not be available. Further, it cannot be developed with any available prices or parallel combination.
7. A dropped tool will land where it can do the most damage. (Also known as the law of selective gravitation.)
8. A device selected at random from a group having 99% reliability, will be a member of the 1% group.
9. When one connects a 3-phase line, the phase sequence will be wrong.
10. A motor will rotate in the wrong direction.
11. The probability of a dimension being omitted from a plan or drawing is directly proportional to its importance.
12. Interchangeable parts won't.
13. Probability of failure of a component, assembly, sub-system or system is inversely proportional to ease of repair or replacement.
14. If a prototype functions perfectly, subsequent production units will malfunction.
15. Components that must not and cannot be assembled improperly will be.
16. A dc meter will be used on an overly sensitive range and will be wired in backwards.
17. The most delicate component will drop.
18. Graphic recorders will deposit more ink on humans than on paper.
19. If a circuit cannot fail, it will.
20. A fail-safe circuit will destroy others.
21. An instantaneous power-supply crowbar circuit will operate too late.
22. A transistor protected by a fast-acting fuse will protect the fuse by blowing first.
23. A self-starting oscillator won't.
24. A crystal oscillator will oscillate at the wrong frequency - if it oscillates.
25. A pnp transistor will be an npn.
26. A zero-temperature-coefficient capacitor used in a critical circuit will have a TC of  $-750 \text{ ppm}/^\circ\text{C}$ .
27. A failure will not appear till a unit has passed final inspection.

## MATHEMATICS

1. In any given miscalculation, the fault will never be placed if more than one person is involved.
2. Any error that can creep in, will. It will be in the direction that will do the most damage to the calculation.
3. All constants are variables.
4. In any given computation, the figure that is most obviously correct will be the source of error.
5. A decimal will always be misplaced.
6. In a complex calculation, one factor from the numerator will always move into the denominator.

## GENERAL ENGINEERING

1. A patent application will be preceded by one week by a similar application made by an independent worker.
2. The more innocuous a design change appears, the further its influence will extend.
3. All warranty and guarantee clauses become void upon payment of invoice.
4. The necessity of making a major design change increases as the fabrication of the system approaches completion.
5. Firmness of delivery dates is inversely proportional to the tightness of the schedule.
6. Dimensions will always be expressed in the least usable term. Velocity for example, will be expressed in furlongs per fortnight.
7. An important Instruction Manual or Operating Manual will have been discarded by the Receiving Department.
8. Suggestions made by the Value Analysis group will increase costs and reduce capabilities.

## SPECIFYING

1. Specified environmental conditions will always be exceeded.
2. Any safety factor set as a result of practical experience will be exceeded.
3. Manufacturers' spec sheets will be incorrect by a factor of 0.5 or 2.0, depending on which multiplier gives the most optimistic value. For salesmen's claims these factors will be 0.1 or 10.0.
4. In an instrument or device characterized by a number of plus-or-minus errors, the total error will be the sum of all errors adding in the same direction.

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*Mr. R. Johnson; Mr. J.A. Cole; Mr. R. Kunter; Dr. J.G. Wager; Mr. R. Minchin; Prof. D.J. Allen-Williams; Mr. J.A. Appleyard; Mr. J.R. Blair; Mr. P. Hueppauff; Mr. L.O. Kirkham.*

#### FOURTH YEAR MECHANICAL

##### JIM BARRETT

"After three years I've finally made an honest woman out of Rose."

##### CHEN YING

Studied "The Effect of Track Dynamics on the Design of Track Structure". Now a railway porter.

##### CHEW

Attracts nurses. Separates plastic balls.

##### FRANK CORDINGLEY

Borrowed Jull halfway through the year and hasn't given her back yet. Recently graduated from VW to Valient.

##### KEN GOW

Takes photos of refuse being incinerated in his backyard model steam locomotive.

##### GOH, M.C.

The quiet one. Wears sneakers.

##### BERNIE GOH

Has graduated with honours in Asian cooking at Tech. Now enrolled in welding classes.

##### DAVE LETHAM

Beloved spouse of Vanessa. Always plots (plots?) his next move with the aid of Automatic Control Theory and the PD P-6.

##### IAN LINDQUIST

Lost Jull halfway through the year and hasn't got her back yet. Recently graduated from Mini to Cortina.

##### LOH KOK LEE

Uses optical aspects of "Biological Systems Analysis and Control Theory" when bird watching.

##### NEV PROBERT

Voted con man of the year. Seduced a nurse while under anaesthetic. (Damaged social finger while playing volleyball).

"You little grot". Had untold trouble with his F.C. (fast car) on the day-of-the-end-of-the-year luncheon, until he decided it may be prudent to lift the bonnet and have a look.

Could never decide whether to read seminar paper before or after the event. Hates war, violence, the Civil Service, Adelaide, . . . Works at Weapons Research Establishment.

Mech IV's conscience. Has an aversion to sky-blue socks. Became engrossed in E.D.M. (Electrical Dame's Measurements).

A Dutchman from way back. Used his seminar as an advertising medium for Phillips products.

Doesn't Con in Cue anymore. Cheeky Chics does the work for him.

The Indonesian Princess has married Italian Beauty Queen. Got an A (eh) in design.

Has communication problem with John; the computer wasn't much good as a go between. Grew his beard most unobtrusively 1mm at a time. Studied Bridge full-time; played Honours between hands and still got 2B.

A hush puppy man.

Terrorises his prospective Mother-in-law with a green Volkswagen.

Had a whale of a time doing Honours. Declared winner of the Inaugural Mech IV, Staff-Student Beard Growing Competition. The de C stands for de Courcy – got you this time M.O. deC.

Always push starts his car, even when the battery isn't flat.

Wears sky-blue coloured socks. So? . . . What's wrong with sky-blue coloured socks?

Has never been known to give standing up lectures. Sets obscure tutorial assignments in first term which gravitate to less obscure exam question in third term.

Set a mean exam 'cos he didn't like us. "The chickens came home to roost."

A purple-and-brown-sock man. "Christ! What the hell am I talking about?"

"I knew his brother-in-Law . . . . .

I am sorry . . . .

I stood in that pipe".

Sets very long exam papers.

He went back.

Refused to take part in the Staff-Student Beard Growing Competition on the grounds that it may incriminate, excommunicate . . . . may what? . . . . repudiate and dilapidate his exterior interior appearance.

Thought V.T.O.L. stood for Very Tempting Obliging Ladies and decided to pursue a PhD on them.

Nice guy.

Pranged his Harley-Davidson the day he fixed it — came to lectures on crutches. Took up bushwalking instead — less dangerous.





*T.J. Fouracres; R.P. Reed; R.A. Steele; B.W. McNaught; P.K. Dee; B. Zambotti; S.N. Whiting;  
K.L. Wong.*

*A. Piper; M.J. Davis; N.J. Mounsher; S.V. Lansell; A.J. Stephens; A. Scolaro; R. Ng; P. J. Clifton.*

*R.D. Gibson; P.R. Sargent; G. Georgakakos; J.C. Hirst; L. Faraone; P.R. Griffiths; Miss J.J. Plante;  
G. Tytherleigh.*

*L.L. Ng; D.L. Pearce; V.P. Salleo; A. Sallustio; R.C. Ferguson; J.D. MacPherson.*

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Mr. A.B. Scholaro; Dr. D.H. Steven.*

## FOURTH YEAR ELECTRICAL AND ELECTRONIC

### BURR MICHEAL JOHN

"Lucky I hit the car or I would have hit the  
tree on the otherside."

### CHIN EDMUND WUI YOONG

The gentleman with the perennial smile.

### CLIFTON PETER JOHN

Was a hard worker, fell in love and joined the  
rest.

### DAVIS MARTIN JOHN

Scourge of the lecturers -- drove Doc. Leary  
back to Ireland.

### DEE PETER KENNETH

Managed to perfect a slow wave beard.

### FARAONE LAWRENCE

Earns a bit on the side by selling hair.

### FERGUSON ROYSTON CYRIL

Another long-haired civil servant -- a surprise  
package for Puca!

### FOURACRES TERRY JOHN

No wonder he is always looking lost -- in all  
that space!

### GEORGAKAKOS GEORGE

Will need more than a blue skivvy in Antarctica.

### GIBSON RAYMOND DAVID

Host of the year.

### GRIFFITHS PETER RHYS

Hums in lectures -- must be going potty.

**HIRST JOHN CHRISTOPHER**

Managed to avoid "ties" but will have to succumb to the P.M.G.

**HOWE ROBERT JOCK**

Had the last say in the year notes.

**JARVIS JAMES WILLIAM**

Feeling seamy about cricket prospectus with the S.E.C. (State's Excellent Cricketers).

**LANSSELL STEPHEN VANE**

Managed to maintain a neat appearance, even after matrimony.

**MOUNSHER NEIL JOHN**

Caught between the P.M.G. and nashos — the Commonwealth wants him bad!

**MACPHERSON JOHN DOUGLAS**

His only way out of engineering is to graduate.

**McNAUGHT BRUCE WILLIAM**

Gets leaner and jeanier the more he drinks. One of the few U.E.C. supporters in Uni.

**NG LENG LEONG**

Keen sense of humour.

**NG ROBERT**

The other Bob.

**PANG TAK YUEN PETER**

Asian playboy.

**PEARCE DAVID LESLIE**

Women come and women go but work goes on forever.

**PIPER ALAN**

The comment is obvious and couched in flowery cliches.

**PLANT JOHANNE JOYCE**

Tried a pageboy but still prefers Dave.

**REED RONALD PAUL**

Glug, glug, splash!	(Paul's exchange):	
Glug, glug, bang!	Swan Brewery	up 10
	S.G.I.O.	down 5
	A.M.P.	down 5

**SALLEO VINCENT PETER**

Nureyev of the football field.

**SALLUSTIO ANGELA**

Tells a good bawdy joke. (about the S.E.C.)

**SARGENT PHILLIP RICHARD**

Will take his seat with him when he goes — holidays at Cape Horn.

**SCOLARO ROBERT JOSEPH**

Will he join big brother in the degree factory?

**SOUTHWELL PHILLIP**

The man with the red face and the torrid bone affairs — is there a relation?

**STEELE ROBERT ALEXANDER**

The only man who needs sunglasses at the bottom of the river — will probably be last seen dodging bullets in Afghanistan.

**STEPHENS Ashley Robert**

Received commendation after recruiting drive at the dinner.

**TYTHERLEIGH Geoffrey St. John**

Right wing conservative.

**WHITING Sidney Neil**

Trails toes when he's biking. Has his voice really broken.

**WONG Kam Leng**

Engineers' answer to PELE.

**ZAMBOTTI Bruno**

Jobless — may be forced into the air.

**NASSA**

Most improved golfer.

**PROFF**

Disagrees with Shannon — Clifton Information Theory.

**MILLSEY**

Won't make money out of selling lectures, but if there is a market for used paper tape . . . !

**LEARY**

Perfecting timing device for explosives in Ireland.

**HULLET**

Grammy for lecturing.

**BUNDELL**

"Why did I give myself this 9.00 a.m. lecture.

**HARVEY**

Thinks faster than he moves — load flow becoming effortless.

**DUNC**

"Lash a keg to the mast."

**LIVINGSTONE**

The red faced Englishman — fee fi fo fum I can't stand this Australian sun.

**MINCHIN**

Fiddles with his phone.

**SCOLARO**

Rehearses in lectures for his television debut.

**JOHN FALL**

Still having trouble picking the weather — gets wet walking home.

*I am not ashamed to confess that I am ignorant of what I do not know — Cicero.*



*M. Hillman; R. Salter; G. Cordin; P. Lemish; E. Jensen; I. Chandler.*

*M. Talianchich; M. Payne; P. Barnett; C. Pascoe; G. Milne; A. Jayasuriya; T. Anekpuritanang.*

*W. Limpaseni; K. Law-Davis; G. Tresidder; S. Foster; J. Kehoe; P. Taplin; K. Imms.*

*P. Darrigan; E. Englund; B. Nilson; P. Waugh; G. Greenacre; G. Dundas; P. Taneerananon; G. Walker.*

*A. Challenor; R. Simpson; P. Canaway; K. Chang; P. Suwanvitaya; A. van Der Meer; Mr. R. Sacks.*

*Mr. S. Thomas; Mr. R. Jewell; Mr. G. Reynolds; Prof. P. Massey; Mr. B. Smith; Mr. H. Craddock;  
Mr. D. Devenish.*

## FOURTH YEAR CIVIL

### ANEKPURITANANG

Asian rep. who rarely repped.

### BARNETT

Only U.E.C. President who could fall asleep sitting up on a stool and lose a key in a door.

### CANAWAY

"Aw Si-ir, those boys are making rude comments about me, Si-ir"!

### CHALLENGOR

The original "62" man who slew 'em in the grudge match.

### CHANDLER

Believed to be on permanent standby as a replacement lighthouse.



**CHANG**

A happy little chap with a distinct aversion for finite elements — he delivered his seminar at 50,000 hertz.

**COFFEY**

This is the guy who used to play CHF for Claremont? — believed to wear a Sir's.

**CORDIN**

The year of the handbag — the winner of the I.M. Rott Memorial Trophy.

**DARRIGAN**

Got blithterth from "Johnny Walkering" in Bunbury.

**DUNDAS**

"Wouldn't you have to be a masochist to use that method, Sir?"

**ENGLUND**

Had a tempestuous love affair with the PDP6, until it found out his chronological age.

**FOSTER**

Bent Sinister — He isn't a poet but doesn't know it — another married bachelor.

**GORMAN**

Only engineer who turned up for a seminar in complete army uniform in fact, one of the few engineers to turn up for a seminar.

**GREENACRE**

How could anybody be so slack doing Honours?

**HILLMAN**

Grudge match man who likes the odd drop.

**HUNGSPREUG**

Who? — the original invisible man.

**INGHAM**

Pint — sized foundation member of the L.L.L.

**IMMS**

Faster than a speeding coke can . . . more powerful than an M.T.T. bus.

**JAYASURIYA**

With his exam technique, Alf might just get home in time to collect his pension.

**JENSEN**

Firm believer in the six year (plus) course — fast seen in the 1969 year notes — for third year!

**KEHOE**

Has a success to work ratio bordering on infinity — hoped being "Returning Officer" wasn't ominous.

**LAW-DAVIS**

Klod Even Now Goes Overboard Every So Often For Females.

**LEMISH**

Mr. Smooth 1972 — got asked to a ball by a bird who mistook him for someone else — and still went.

**LIMPASENI**

Must be the only engineer who saved two thousand dollars without having a job — good tucker these aussie scholarships.

**LONGLEY**

Suffered badly from the "But Officer" syndrome and Craig's company.

**MARCHESANI**

"Is it my go? . . . What's trumps?" — permanent advertisement for spread footings.

**MEYRICK**

Spent weeks putting 720 pieces of data into the computer — until he heard it had been on tape all the time.

**MILNE**

Tells me Rottsie had teeth-marks left in his neck by a wallaby-sized gnat.

**MORRIS**

Alias Hofmeyer, Fuhrer, Worrus etc. — the only chap who can go to Steve's to drink Coke — and come home rotten.

**NEANCHERLEAY**

To Craig and John (slightly done) — "You want to come up to my place for some blandy?"

**NILSEN**

A Rover man-going back to Scandinavia eventually.

**PASCOE**

Had woman trouble earlier on in the year but learnt to live with it; Wog ardently denies being a protagonist of Women's Lib.

**PAYNE**

Took the Honour of the best seminar presentation of 1972.

**SALTER**

Doesn't ask questions — he tells them; the lowest paid lecturer on campus.

**SIMPSON**

Ran a book on the seminar attendances and found his was the lowest.

**STEWART**

Stu Blue was everybody's mate after his "Bishop" act — believed to be on a perrenial promise.

**STOREY**

Joined in the tug and the Warnock fund — (because he thought he had considerable financial pull?)

**STRAHAN**

Had a lot of trouble explaining to the officer how the bomb on the back of his truck blew up the Narrows Bridge.

**SUWANAVITAYA**

Last seen in one piece at the Engine's Dinner.

**TANEERANANON**

"What? Get married? Me? . . . Ho! Ho!"

**TALIANCHICH**

Capitalist of the Year — spent over \$50 photostatting the notes he missed; living proof that you can't pick your exam questions.

**TAPLIN**

Engineer of the Year — the unmarried husband who was in everything . . . like Prosh, Exhibition etc.

**THORPE**

Won Forp-th other married bachelor who was runner up for Faux Pas of the Year . . . without saying anything.

## TRESIDDER

Came to an agreement with Slater over prizes —  
Before the exams.

## WALKER

Symposium veteran with a ruthless attitude to  
study . . . or vice versa.

## WAUGH

Designed longitudinal r/f for his nose-guard  
whilst recuperating from his gambling losses.

## SMITH

"See Codes"

## REYNOLDS

"Ignore codes"

## KAVANAGH

"If you still can't work it out, use eighth order  
differential equations."

## MASSEY

"I don't know . . . let's have a look in the book."

## CLEGG

"Well . . . you don't know, do you?"

## SILVESTER

"Hold my beer while I hand out these work  
sheets" — suffered from a broken wrist in  
lecturers.

## SACKS

(FARK!) "That's not nice . . . but then again it  
is!"

## ANSLEY

"It may be shit to you, son, but it's my bread  
and butter!"

## HEBBERT

"I've been routing all my life and I've got no  
intention of changing now."

# students '72

## FIRST YEAR

Abbott T.M.  
Adams M.H.  
Allen B.C.  
Anderson J.C.  
Anderson P.J.  
Archer J.C.  
Artelaris S.C.  
Austin P.P.  
Barrett-Lennard I.  
Barrow P.  
Bartlett J.D.  
Barwood J.V.  
Beeson A.R.  
Benn A.  
Biagioni E.P.  
Binns M.J.M.  
Black D.I.  
Bond G.M.  
Botica C.J.  
Boughton G.N.  
Bower B.S. (Miss)  
Boyle C.P.  
Braccia N.A.  
Bradley G.J.  
Breakwell K.G.  
Bridgeman K.G.  
Bromfield G.H.  
Brown J.M. (Miss)  
Buchan S.J.  
Bui-Vinh Ton  
Burcham B.H.  
Cadee K.  
Cahill J.A.  
Cameron B.J.  
Carlton D.W.  
Carrigg G.H.  
Chandrasekhar s/o Ramachandran  
Cheang Kok Meng  
Chester R.L.  
Chew Sew Sing  
Chia Yow Poh  
Chisholm D.R.  
Chivers R.J.  
Chow Kain Phoi  
Clayton C.G.  
Clohessy K.R.  
Coates T.G.  
Conway D.V.

Cosoleto F.A.  
D'Alonzo G.L.  
Daley P.  
Dalglish T.A.  
Daud N.R.A.  
Davey A.G.  
Davies R.B.  
De La Motte T.G.P.  
Dickerson H.R.  
Dilorito F.A.  
Dinneen A.G.  
Dobson L.W.  
D'Rozario W.T.M.  
Dunning V.R.  
Eaton P.R.  
Edwards D.C.  
Elliott C.D.  
Fairclough C.R.  
Ferguson P.L.  
Fetherstonhaugh A.R.  
Fielding P.I.  
Finlayson I.J.  
Fitzhardinge D.B.  
Foden G.C.  
Foo Gin Heng  
Foo Tse Kiong  
Ford A.J.  
Gawley S.J.  
Gillon B.R.  
Gliddon J.P. (Miss)  
Goh Ching Foo  
Gooding M.  
Gooch M.J.  
Gummer P.C.  
Gunn C.J.  
Gupanis L.C.  
Haji Yaacob Mashkuri  
Halford I.R.  
Harris K.P.  
Hart G.I.  
Hartzer R.T.  
Haynes D.J.  
Hennessy J.E.  
Hewett G.M.  
Ho Pay Chee  
Hocart C.H.  
Hollingshead J.S.  
Howie F.R.  
Howlett P.M.

Hughes P.W.  
Huynh Van  
Ibrahim Ramli  
Jackson T.D.C.  
Jellis G.R.  
Johnson N.H.  
Jones D.N.  
Jones M.A.  
Jones P.R.  
Kamarazaman Mohd Z.  
Karim Abdullah Bin  
Kazazi J.A.  
Keating T.J.  
Khoo Chong Eng  
Khor Ooi Pong  
King R.W.  
Kite J.M.  
Kong Pak Lim  
Kurzeja G.  
Lamotte D.J.  
Landro B.  
Langridge D.  
La Roche N.P.  
Lee Hing Koek  
Lee Kah Lek  
Lee Thong Chai  
Leiper R.B.  
Leong Yong Hiong  
Lester M.A.  
Leung Chi Keung  
Lewis R.A.  
Lim Kok Fai (Chris)  
Lim Lee Kheong  
Lim Lian Chye  
Lim Soay Tee  
Lim Weng Mee  
Litchfield R.T.  
Lo Kin-Keung  
Low Chang Koon  
Low Chung Kuay  
Lutay R.J.  
Lyons J.M.  
Maelah Rusadah (Miss)  
Mann D.J.  
Manson M.R.  
Mariano N.C.  
Marks R.M.  
Marmion W.R.  
Marwick P.G.

Masters J.N.  
May E.S.  
Mayho N.S.  
Michael C.A.  
Miles J.R.  
Minh Tran Huu  
Mohd Zain Zainul R.  
Monks K.G.  
Morley A.H.  
Morris C.W.  
Mounsher P.K.  
Moustakas A.  
Murdoch J.P.  
Muzlifah Mohd A. (Miss)  
McAllister P.  
McAvan J.  
McCluskey P.  
McKay M.L.  
McNab N.K.  
Nalder B.H.  
Neoh Loon Hock  
Neumann B.R.  
Ng Choo Mong  
Ng Siew Seng  
Ng Teck Kheng  
Nicholls G.R.  
O'Sullivan M.J.  
Page D.M.  
Palumbo J.  
Pang Taw Khong  
Papalia T.  
Parolo D.R.  
Payne A.J.  
Percy J.G.  
Peters R.J.  
Petersen T.D.  
Petkoff G.I.  
Pickney-Hockless V.V.  
Polglaze A.B.  
Postmus E.  
Princi D.M.  
Randell J.G.  
Rathbone M.D.  
Rhodes W.A.  
Ricciardone J.  
Rizzi R.P.  
Robinson D.G.  
Roxburgh K.S.

Sankey R.C.  
 Sasse M.E.  
 Saunders V.R. (Miss)  
 Segal J.  
 Seward M.G.  
 Shaikh Nasir  
 Shaikh Abdul Rahman  
 Silvester D.  
 Smith K.E.  
 Somerville Brown M.L.  
 Spearing J.K.  
 Spragg R.S.  
 Strickland D.L.  
 Styles A.E.  
 Summers J.C.R.  
 Tan Heng Kian  
 Tan Kim Peow  
 Tanner A.G.  
 Teh Koon Kian  
 Teoh Lee Seong  
 Thompson E.M.  
 Topp H.  
 Tuan Nguyen Quoc  
 Tuan Tran Minh  
 Turner D.L.  
 Twycross M.  
 Vandenberg J.P.  
 Verschuer P.B.  
 Warriar V.  
 Watson N.T.  
 White G.P.  
 Wiese R.J.  
 Williams P.B.  
 Wong Ang Chai  
 Wong Toh Hung  
 Woodhams R.S.  
 Woods S.J.  
 Woolford M.W.  
 Yau Wai  
 Zanotti K.W.  
 Zinkler A.S.

## SECOND YEAR

### COURSE A

Archer G.E.  
 Armanasco P.S.  
 Azzam S.M. (Miss)  
 Baster P.R.  
 Beale K.A.  
 Bellemore J. (Miss)  
 Blackman J.E.  
 Boekelaar R.J.  
 Bowyer P.R.  
 Bradshaw C.M.  
 Bretnall R.  
 Brown G.D.  
 Burbridge C.J.  
 Carroll S.M.  
 Chambers A.F.  
 Chiong Wei Shiong  
 Choo Eng Aw  
 Choong George  
 Clarke A.E.  
 Clarke P.T.  
 Clifford P.J.  
 Collins G.R.  
 Courtis L.R.  
 Cross A.N. (Miss)  
 Cullity D.T.  
 Cunningham D.B.  
 Davis C.G.  
 Davis P.F.  
 Doropoulos L.  
 Dunn M.P.  
 Dyer D.A.

Eggert M.J.  
 Elliott R.W.  
 Elshaw W.E.  
 Ewing P.A.  
 Firios N.  
 Fitzgerald B.W.  
 Foo Choo Shong  
 Foote R.J.  
 French M.J.  
 Gadd C.B.  
 Gartner J.C.  
 Gilbert D.J.  
 Gould T.G.  
 Gow P.W.  
 Green M.P.  
 Gutmanis I.  
 Haggerty B.C.  
 Hammond R.S.  
 Hardie C.E.  
 Hardy R.J.  
 Hastings L.R.  
 Hill A.D.  
 Hughes G.J.  
 Ivey G.N.  
 Jarvis B.R.  
 Jeffries D.A.  
 Jenkinson G.C.  
 Johnson J.G.H.  
 Jones B.  
 Joss G.L.  
 Judge B.R.  
 Kan Tong Seng  
 Kang Ngeek Kong  
 Kendall W.T.C.  
 Kerr A.J.  
 Khai Phan Thien  
 Khong Heng Min  
 King J.H.  
 King T.C.  
 Kok Kee Fatt  
 Laan B.R.A.  
 Landro C.B.  
 Langford J.A.  
 Lee Hoe Kok  
 Lewkowski G.J.  
 Lim Lee Chat  
 Lodge K.L.  
 Mah Kai Leong  
 Maloney F.J.  
 Manzi A.  
 Medbury R.C.M.  
 Minchin D.B.  
 McAuliffe R.A.  
 McGilligan M.D.  
 McLernon A.  
 McLernon J.E.  
 Ng Eu Tat, Ivy (Miss)  
 Nicholson G.J.  
 Nieman H.F.  
 Notte A.  
 Osborne B.S.  
 O'Connell G.P.  
 Ong Chow Loo  
 Ong Huay  
 Ovens J.W.  
 Packer C.  
 Paino P.J.  
 Papadopoulos G.  
 Pasotti B.  
 Pegrum W.R.  
 Penrose R.I.  
 Piper V.  
 Pitt R.K.  
 Porter J.L. (Miss)  
 Pyburne S.P.  
 Rapoport L.D.  
 Rayner K.N.

Reed P.C.  
 Reynolds M.L.  
 Robertson B.E.  
 Robinson G.A.  
 Robinson P.R.  
 Seong Mun Fai  
 Shamsudin Megat Z.B.M.  
 Siragusa N.P.  
 Smith G.R.  
 Smythe A.E.  
 Stewart G.W.  
 Stokes R.A.  
 Surridge P.W.L.  
 Swannell G.S.  
 Tan Kiew Ping  
 Teo Cheow Aik  
 Tondut J.K.  
 Toomer G.P.  
 Tout D.J.  
 Tsan V.H.Y.  
 Veale C.M.  
 Verrier S.J.  
 Wan Shoo Chiu  
 Wan Tet Fong, Johnson  
 Watson A.M.  
 Watson I.K.  
 Weaver I.J.  
 Wee Tiong Siew  
 Whitelaw I.E.B.  
 Wilson M.W.  
 Wilson S.H.  
 Winsor N.R.  
 Yip Put Jan  
 Young B.E.  
 Leong Shui Hung  
 Low Hock Chye  
 Thomson W.G.  
 Stone R.R.

### COURSE B

Abdullah Mohammad Bin  
 Aberle D.T.  
 Abu Bakar Mohammad Nor Bin  
 Bowron K.D.  
 Brown K.W.  
 Carr M.E.  
 Cheah Sam Keat  
 Creelman G.  
 Dong Nhan Trung  
 Duong Nguyen Huy  
 Gilbert T.P.  
 James H.W.S.  
 Krutsky T.R.  
 Leivers J.  
 Lindsay D.A.  
 Masterson S.P.  
 Muoi Tran Van  
 McMurdo R.V.  
 Pazoli N.  
 Schmidt D.J.  
 Tan Chet  
 Tay Chee Hian  
 Wong Lay Sing  
 Yang Yau Dau  
 Yeap Ming Ting Patricia (Miss)  
 Fitzpatrick M.C.

### COURSE C

Abu Bakar Mohammad Seth Bin  
 Binh Le Nguyen  
 Chan King Hon  
 Chapman R.H.  
 Chung Kong Yin  
 Cusmano F.  
 Doan Hoang Bang

Douglas P.C.  
 Golja B.J.  
 Hanslip D.C.  
 Haron R.A.B.  
 Hinkley D.B.  
 Hubble F.G.  
 Hughes B.J.  
 Ip Sheung Sze  
 Jacob P.K.  
 Lake B.D.  
 Maley I.J.  
 Mat Salim Bin  
 Meloncelli J.L.  
 Muller C.F.  
 Pallot K.N.  
 Pearce G.I.  
 Rebeiro M.I.  
 Smith C.F.  
 Szorenyi P.A.  
 Tan Lam Pheng  
 Tresidder J.D.  
 VuVan Van  
 Wong Hon Fai  
 Wong Hon Wing  
 Meharry D.A.

## THIRD YEAR

### MECHANICAL

Chan Bun Soon  
 Cheong Choi  
 Chew Hung Leng  
 Chew Kah Chuan  
 Chong Fook Loong  
 Chua David Tiang Chun  
 Cornish D.K.  
 Goh Chin Hua  
 Green, C.R.  
 Hambleton, G.N.  
 Hawken P.J.  
 Koh Kau Chiang  
 Kong Ngie Ming  
 Lapuma, S.L.  
 Lau Kian Hwa  
 Leslie R.A.  
 Liew See Leong  
 Maley P.M.  
 Modra K.C.  
 Mohamad Anuar bin Sulaiman  
 Olminkhof J.B.  
 Ong Joo Hong  
 Perreau M.E.  
 Porter T.G.  
 Sheridan D.B.  
 Silvester R.S.  
 Tan Boon Chee  
 Voon Tai Chong  
 Wake G.S.  
 Walsh P.G.  
 Wong Ching Kuok (David)  
 Yong Tshe Liung  
 Healey E.J.  
 Patrick N.

### ELECTRICAL

Calligaro R.H.  
 Cantoni R.F.  
 Cargill R.D.  
 Caro N.W.  
 Foster W.  
 Gummer A.W.  
 Honeyman A.D.  
 Hong C.L.  
 Ithisariyanont T.  
 Johns G.S.

Lim A.T.  
Lim B.Y.  
Lim J.B.  
Lukas F.X.  
Nichols R.G.  
Nind E.P.  
Norman M.J.  
Noteboom F.I.  
Oma G.L.  
Orkney K.R.  
Shakhovskoy P.  
Teh T.H.  
Thanh N.H.  
Turnbull G.A.  
Weijers A.J.  
Malaspina P.

## ELECTRONIC

P. Canavan  
M.S. Eng  
C.W. Goode  
W.C.Y. Kwan  
H.Y. Lee  
C.H. Leung  
K.L. Lim  
E. Mandavy  
A.M. Mills  
D.S. O'Sullivan  
H.S. Pickersgill  
V. Raich  
T.B. Sellner  
M.G. Smith  
A. Zaknich

## CIVIL

Ariyaprakai V.  
Baguley L.E.  
Baker K.J.  
Basanovic P.  
Baynes L.T.  
Black B.H.  
Blair D.R.  
Blandford N.J.  
Bradley K.J.  
Broadway G.A.  
Brooks D.S.  
Bryant I.E.  
Chatjarensward D.  
Chung A.Y.E.  
Coate M.T.  
Cosson M.G.  
Crawford M.S.  
Cwiek V.E.  
Denison G.G.H.  
Denny I.C.  
Djulbic E.S.  
Edmonds L.W.  
Fitzpatrick G.M.  
Gardiner C.K.  
Gibson A.J.  
Grincer A.J.  
Gugich J.J.  
Harris P.M.  
Hewitt M.I.  
Johnsen M.T.  
Joffy P.B.  
Kelliher R.G.  
Kelly A.J.  
King J.C.  
Kooperman B.C.  
Lali M.A.  
Lang G.B.  
Larkins G.K.  
Lau G.H.  
Liang B.H.  
Lok C.S.  
Madafferi S.

Marks P.  
Mitsopoulos V.L.  
MacDonald D.G.  
Nadilo K.B.  
Plummer A.M.  
Radaich J.P.  
Richardson A.J.  
Ruskulis, A.J.  
Schladow G.  
Scott P.W.  
Seckington C.C.  
Smith B.J.  
Stack P.R.  
Stone K.A.  
Unkovich I.T.  
Van Dongen A.J.  
Vigus C.L.  
Wahab B.H.D.  
Walker R.D.  
Wallace J.D.  
Wang J.W.  
Wong N.H.A.

## FOURTH YEAR MECHANICAL

Barrett J.A.  
Chen Ying  
Chew Yong Tian  
Cordingley F.E.  
Crisafulli C.W.  
Ginandjar P.  
Goh Chee Aik  
Goh Meng Choon  
Gow, K.N.  
Latham C.D.  
Lindquist I.D.  
Loh Kok Kee  
Lutton P.F.  
Ng Hock Hai  
Nicholson R.K.  
Ong Sin Wah  
Probert N.J.  
Pugsley G.O.  
Pullan D.A.  
Slot E.G.  
Walters M.O. de C.  
Wong Cheow Kim  
Wong Choong Kee

## ELECTRICAL

Burr M.J.  
Clifton P.J.  
Davis M.J.  
Dee P.K.  
Georgakakos G.  
Hirst J.C.  
Howe R.J.  
Jarvis J.W.  
Lansell S.V.  
Ng L.L.  
Ng R.  
Piper A.  
Plant J.J.  
Reed R.P.  
Sallustio A.  
Scolaro R.J.  
Steele R.A.  
Stephens A.R.  
Wong K.L.  
Zambotti B.  
Southwell P.J.

## ELECTRONIC

Chin E.W.Y.  
Faraone L.  
Ferguson R.C.  
Fouracres T.J.  
Gibson R.D.  
Griffith P.R.  
Mounsher N.J.  
MacPherson J.D.  
McNaught B.W.  
Pang T.Y.P.  
Pearce D.L.  
Salleo V.P.  
Sargent P.R.  
Tytherleigh G.St. J.  
Whiting S.N.

## CIVIL

Anekpuritanang T.H.  
Barnett P.J.  
Canaway P.  
Challenor H.A.  
Chandler I.J.  
Chang A.K.S.  
Coffey P.S.  
Cordin P.G.  
Darrigan P.R.  
Dundas G.S.  
Englund E.A.  
Foster S.G.  
Gorman M.R.

Greenacre G.S.  
Hillman M.O.  
Hungspreug S.  
Imms K.J.  
Ingham C.T.L.  
Jayasuriya A.M.  
Jensen E.B.  
Kehoe J.D.  
Law-Davis K.H.  
Lemish P.J.  
Limpaseni W.  
Longley J.F.  
Marchesani P.  
Mayrick S.J.  
Milne G.P.  
Morris W.J.  
Neanchaleay K.  
Nilsen B.O.  
Pascoe C.S.  
Payne M.J.B.  
Salter R.  
Simpson R.N.  
Stewart C.K.  
Storey P.J.  
Strahan T.H.  
Suwanvitaya P.  
Tallianchich M.M.  
Taneerannon P.  
Taplin P.N.  
Thorpe R.J.  
Tresidder G.A.  
Walker G.P.  
Waugh P.J.  
Fitzhardinge C.B.

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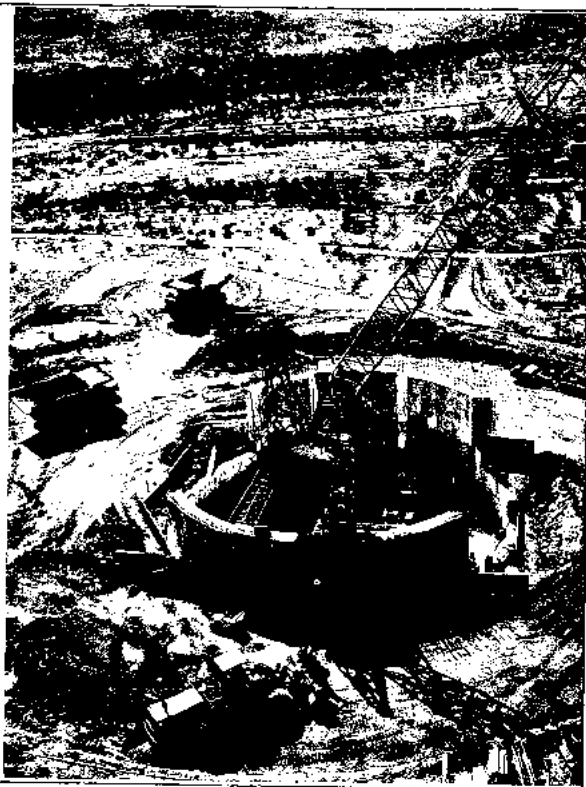
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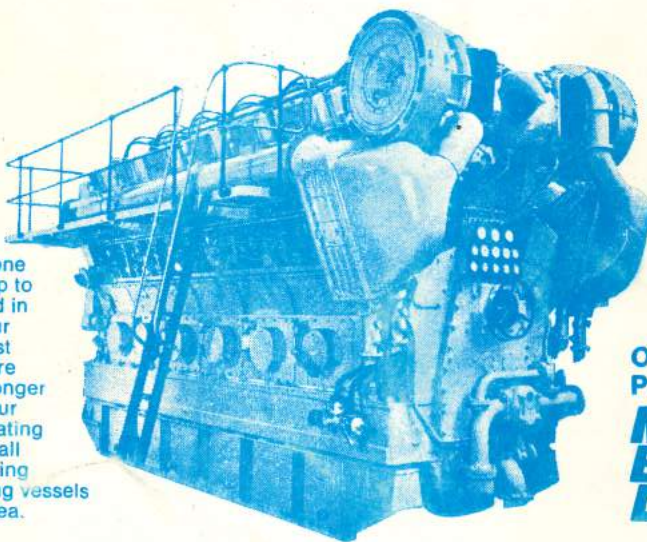
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